

RESTRAINT SYSTEM

SECTION **RS**

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RS

When you read wiring diagrams:

- Read GI section, "HOW TO READ WIRING DIAGRAMS".
- See EL section, "POWER SUPPLY ROUTING" for power distribution circuit.
- See EL section for NATS information and wiring diagram.

When you perform trouble diagnoses, read GI section, "HOW TO FOLLOW FLOW CHART IN TROUBLE DIAGNOSES" and "HOW TO PERFORM EFFICIENT DIAGNOSIS FOR AN ELECTRICAL INCIDENT".

PRECAUTION

Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER” used along with a seat belt, help to reduce the risk or severity of injury to the driver and front passenger in certain types of collision. The SRS system composition which is available to NISSAN MODEL P11 is as follows (The composition varies according to the destination and optional equipment):

- For a frontal collision
The Supplemental Restraint System consists of driver’s air bag module (located in the center of the steering wheel), front passenger’s air bag module (located on the instrument panel on passenger’s side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.
- For a side collision
The Supplemental Restraint System consists of air bag modules (located in the outer side of front seats), satellite sensor, diagnosis sensor unit (one of components of supplemental air bags for a frontal collision), wiring harness, warning lamp (one of components of supplemental air bags for a frontal collision).

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized 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 SRS wiring harnesses except “SEAT BELT PRE-TENSIONER” connectors can be identified by yellow harness connector (and with yellow harness protector or yellow insulation tape before the harness connectors).

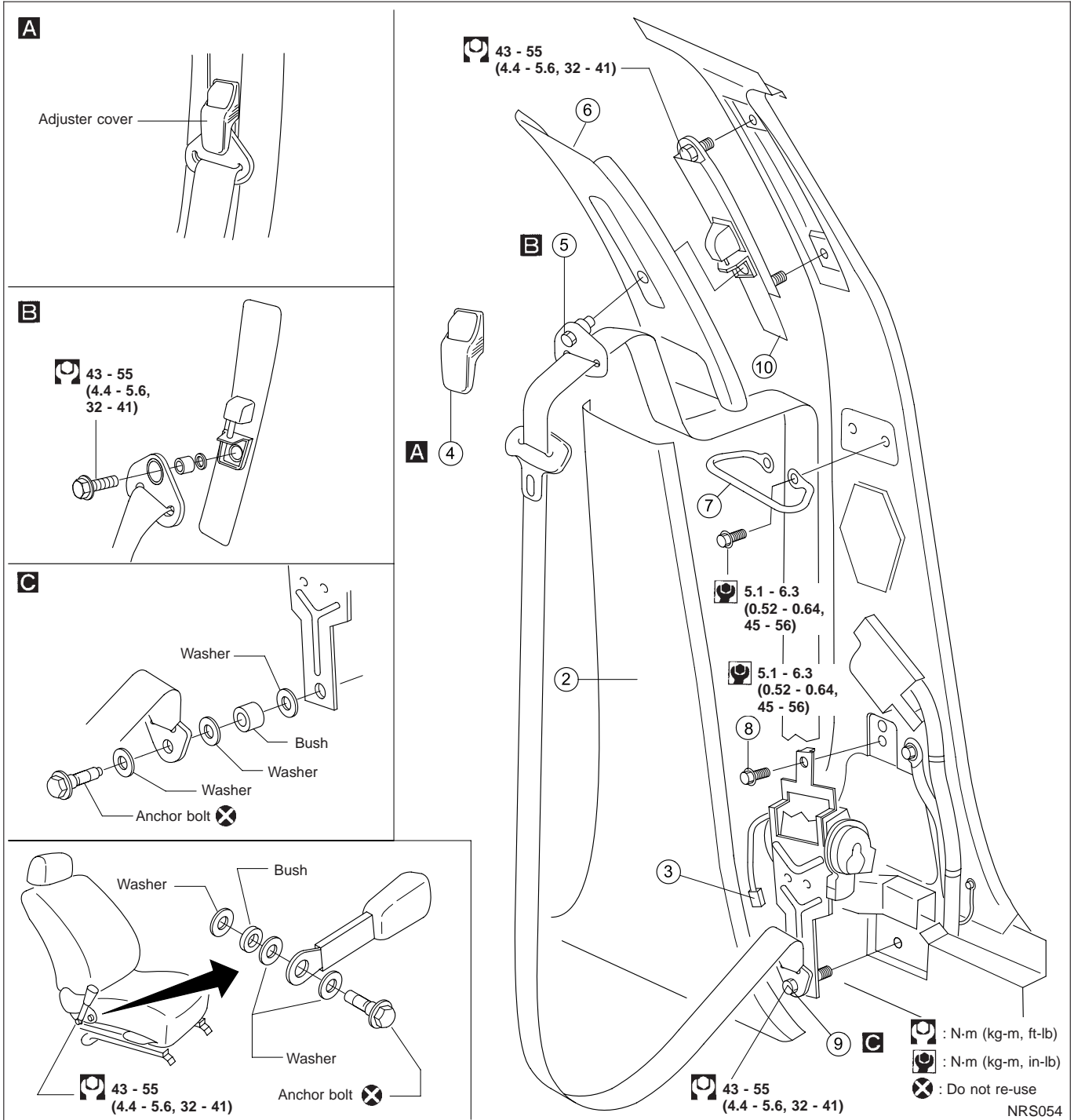
CAUTION:

- Before removing the seat belt pre-tensioner assembly, turn the ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- Do not use electrical test equipment for seat belt pre-tensioner connector.
- After replacing or installing seat belt pre-tensioner assembly, or reconnecting seat belt pre-tensioner connector, check the system function. Refer to “SRS Operation Check” (RS-37) for details.
- Do not disassemble buckle or seat belt assembly.
- Replace anchor bolts if they are deformed or worn out.
- Never oil tongue and buckle.
- If any component of seat belt assembly is questionable, do not repair. Replace the whole seat belt assembly.
- If webbing is cut, frayed, or damaged, replace seat belt assembly.
- When replacing seat belt assembly, use a genuine seat belt assembly.
- After any collision, inspect all seat belt assemblies, including retractors and other attached hardwares (i.e., guide rail set).

SEAT BELT

Front Seat Belt

- ① Slide the seat all the way forward.
- ② Remove center pillar lower garnish. Refer to "INTERIOR TRIM" in BT section for details.
- ③ Disconnect seat belt pre-tensioner subharness connector from the main harness.
- ④ Remove the cover of the shoulder adjustment. **A**
- ⑤ Remove the seat belt from the shoulder adjuster. **B**
- ⑥ Remove center pillar upper garnish. Refer to "INTERIOR TRIM" in BT section for details.
- ⑦ Remove bolts securing sash guide, then remove sash guide.
- ⑧ Remove the seat belt pre-tensioner retractor anchor bolt.
- ⑨ Remove the bolt securing seat belt pre-tensioner retractor, then remove seat belt and seat belt pre-tensioner retractor. **C**
- ⑩ Remove shoulder adjustment, taking care not to damage plastic garnish.

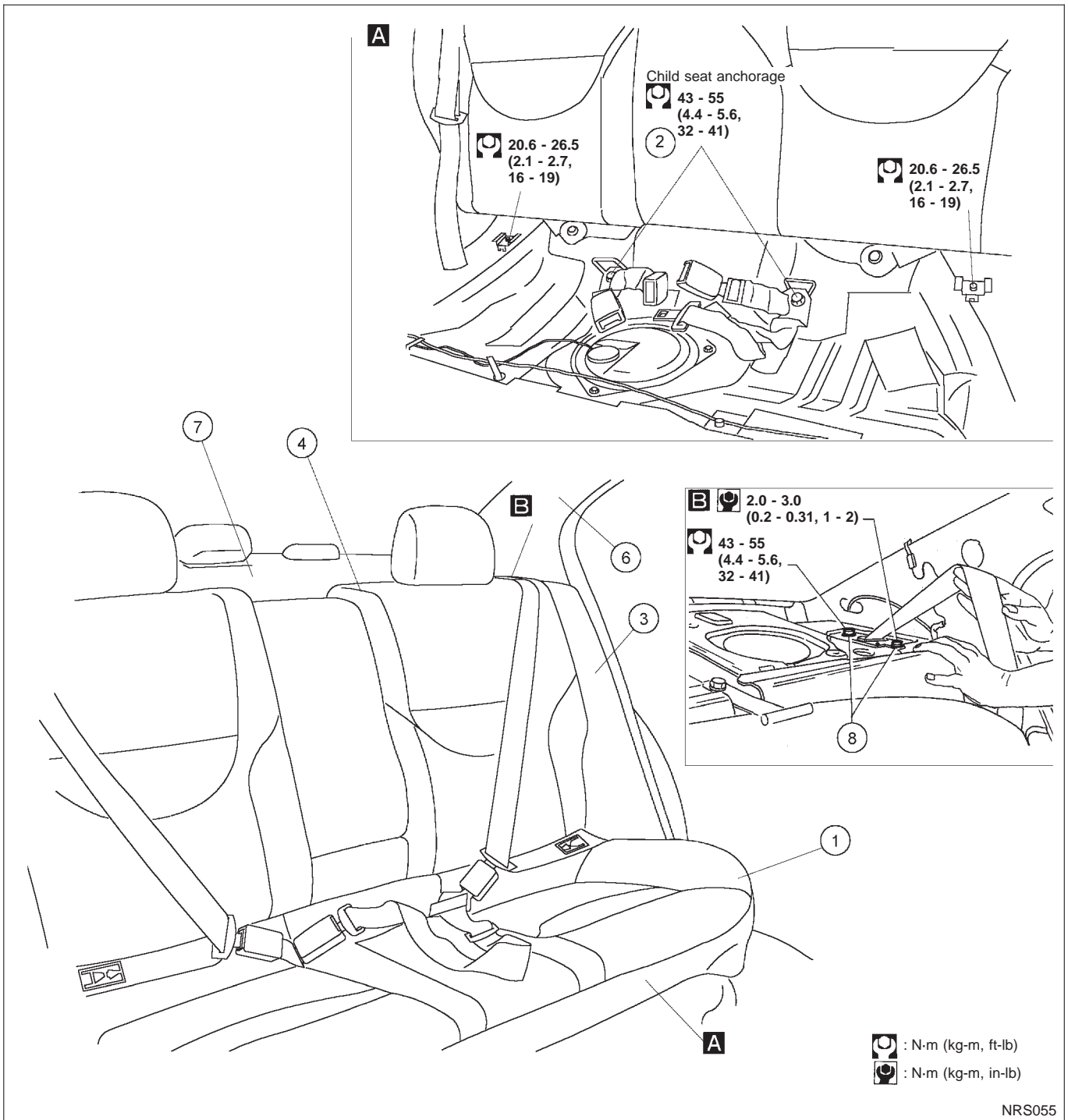


SEAT BELT

Rear Seat Belt (4-door models)

MODELS WITH 2-POINT CENTER SEAT BELT

- ① Remove rear seat cushion. Refer to "SEAT" in BT-section for details.
- ② Remove each anchor bolt.
- ③ Remove both sides of the back of the seat.
- ④ Fold down rear seat.
- ⑤ Remove high mounted stop lamp from parcel shelf (where fitted).
- ⑥ Remove rear pillar garnish.
- ⑦ Remove the parcel shelf.
- ⑧ Remove the bolt and screw which secure the rear seat belt retractors.



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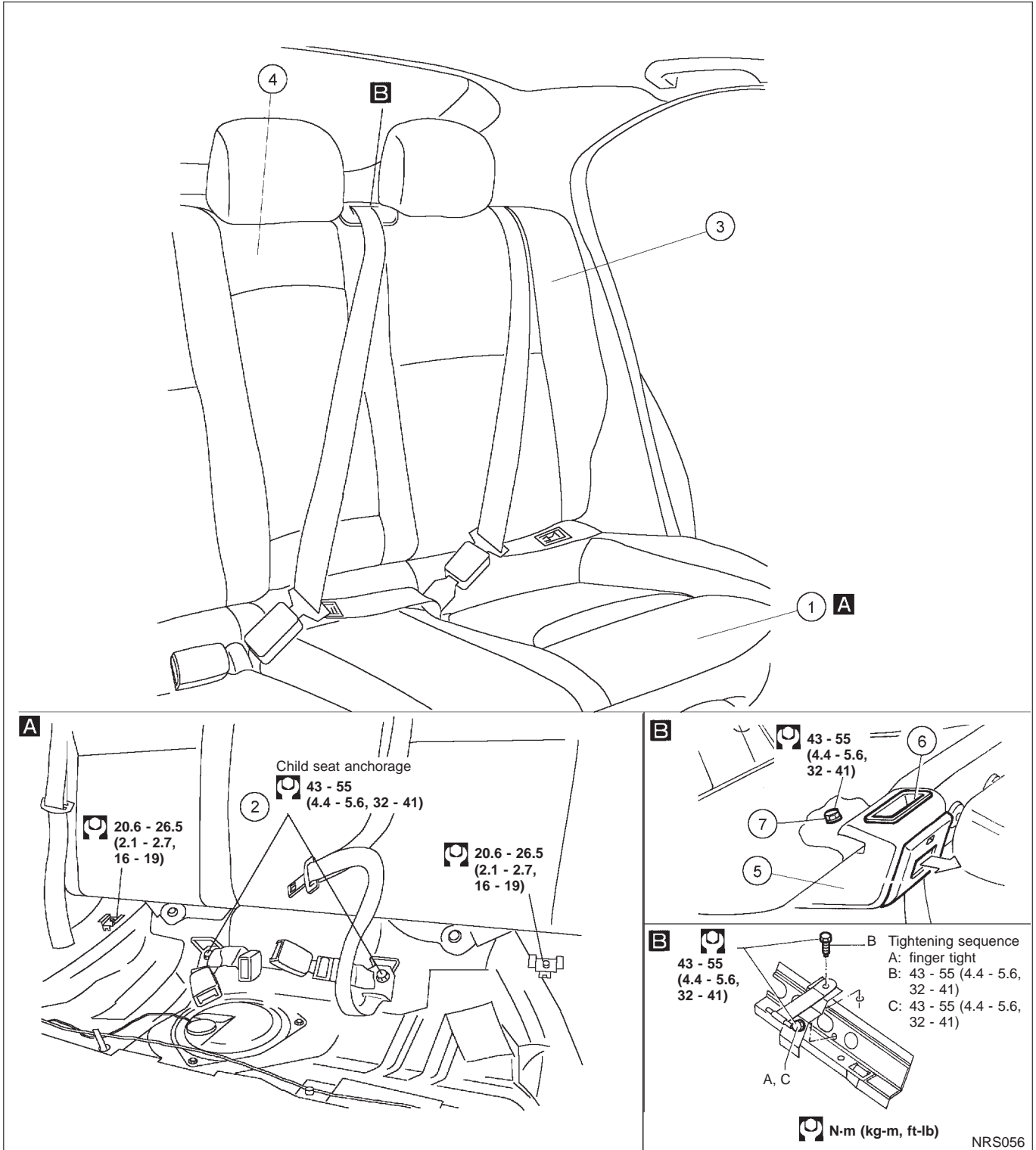
SEAT BELT

Rear Seat Belt (4-door models) (Cont'd)

MODELS WITH 3-POINT CENTER SEAT BELT:

For outboard seat belts refer to “models with 2 point center seat belt”.

- ① Remove rear seat cushion. Refer to “SEAT” in BT section for details.
- ② Remove anchor bolts.
- ③ Fold down LH-side backrest.
- ④ Remove finisher located behind the armrest (where fitted).
- ⑤ Remove trim on the rearside of the backrest.
- ⑥ Remove finisher.
- ⑦ Remove anchor bolt.
- ⑧ Pull the retractor out of the backrest.



SEAT BELT

Rear Seat Belt (Wagon and 5-door models)

MODELS WITH 2-POINT CENTER SEAT BELT

- ① Remove rear seat cushion. Refer to "SEAT" in BT-section for details.
- ② Remove each anchor bolt.
- ③ Fold down rear seat back.
- ④ Remove rear seat back carpet and clips.
- ⑤ Remove seat belt retractor escutcheon.
- ⑥ Unclip rear seat back lock release button then remove the lock release escutcheon.
- ⑦ Remove fabric covering portion of the seat belt retractor.
- ⑧ Remove the seat belt retractor cover.
- ⑨ Loosen the seat belt retractor anchor bolt, then remove the seat belt retractor.
- ⑩ Remove interlock cable end from the seat belt retractor. (If necessary)

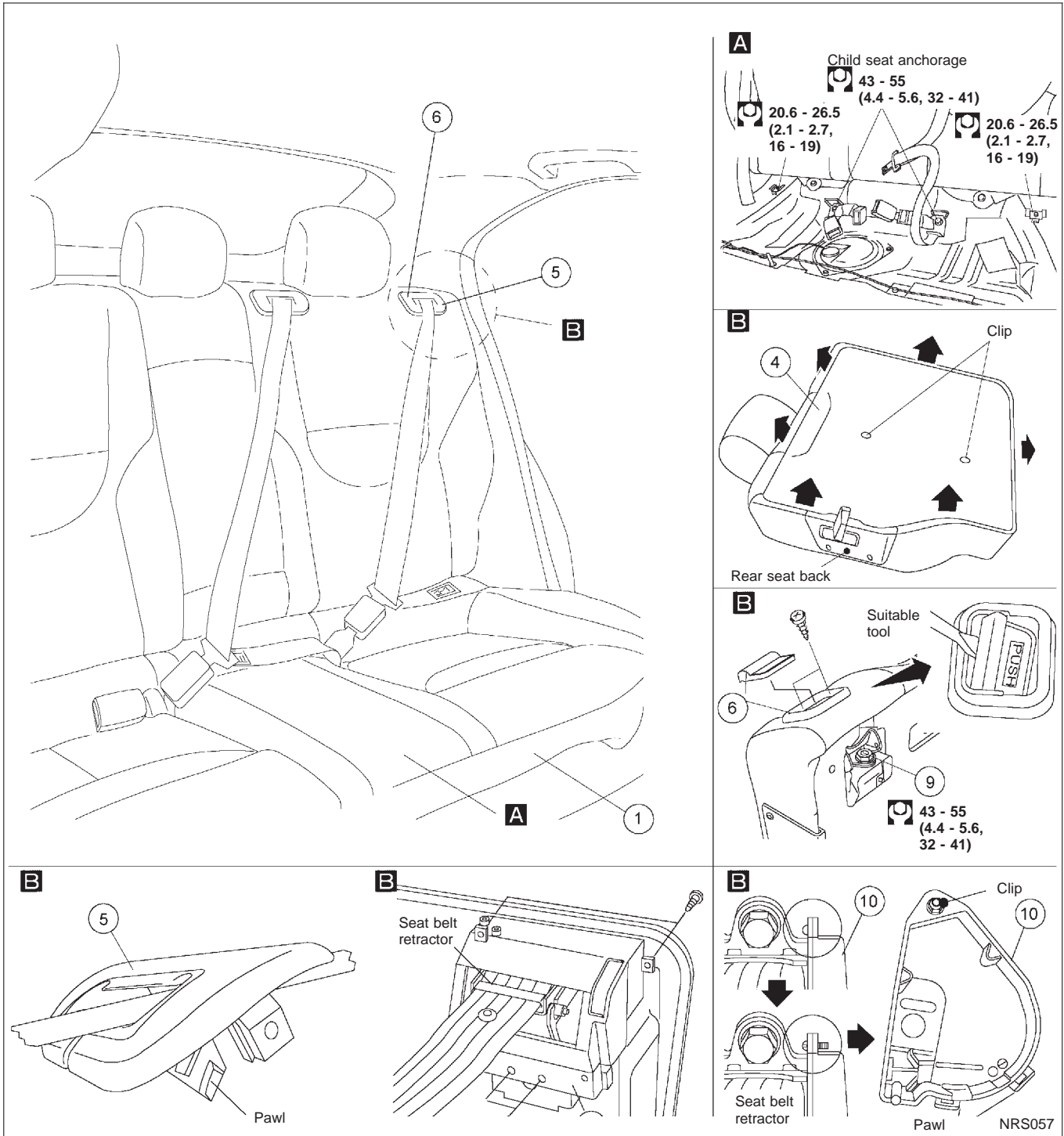
MODELS WITH 3-POINT CENTER SEAT BELT

The procedure is same as 2-point center seat belt models.

When removing 3-point center seatbelt, the procedure ⑥ should be skipped.

SEAT BELT

Rear Seat Belt (Wagon and 5-door models) (Cont'd)

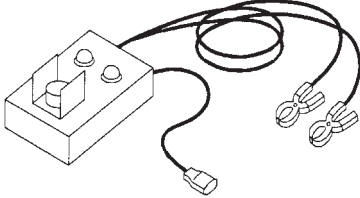
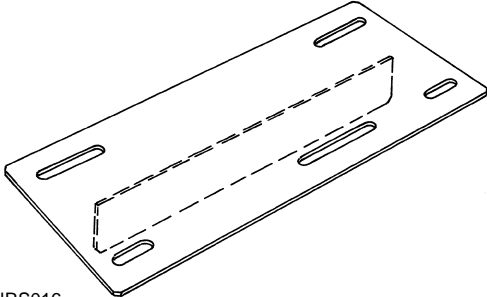
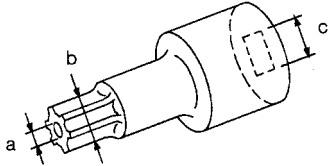
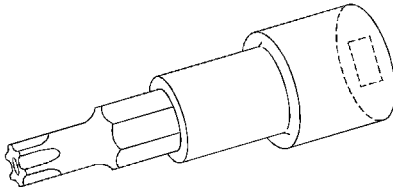


SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Precautions for SRS “AIR BAG” and “SEAT BELT PRE-TENSIONER” Service

- Do not use electrical test equipment to check the SRS unless instructed to do in this Service Manual.
- Before servicing the SRS, turn ignition switch “OFF”, disconnect both battery cables and wait at least 3 minutes.
For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pre-tensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.
- Diagnosis sensor unit must always be installed with their arrow marks “↖” pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned with the neutral position since its rotations are limited. Do not attempt to turn steering wheel or column after removal of steering gear.
- Handle air bag module carefully. Always place driver’s and passenger’s air bag modules with the pad side facing upward and place side air bag module (built-in type) standing with stud bolt side setting bottom.
- Conduct self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.

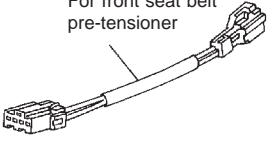
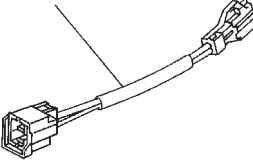
Special Service Tools

Tool number Tool name	Description
KV99106400 Deployment tool	<div style="text-align: right;">Disposing of air bag module</div>  <p style="text-align: left;">NT357</p>
KV99105300 Air bag module bracket	<div style="text-align: right;">Anchoring air bag module</div>  <p style="text-align: left;">NRS016</p>
HT61961000 and HT62152000 combined *Special torx bit	<div style="text-align: right;">Use for special bolts [TAMPER RESISTANT TORX (Size T50)]</div>  <p style="text-align: left;">NT361</p> <div style="text-align: right;"> <p>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> </div>
Tamper resistant torx socket	<div style="text-align: right;">Size: T30</div>  <p style="text-align: left;">NT757</p>

*: Special tool or commercial equivalent

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

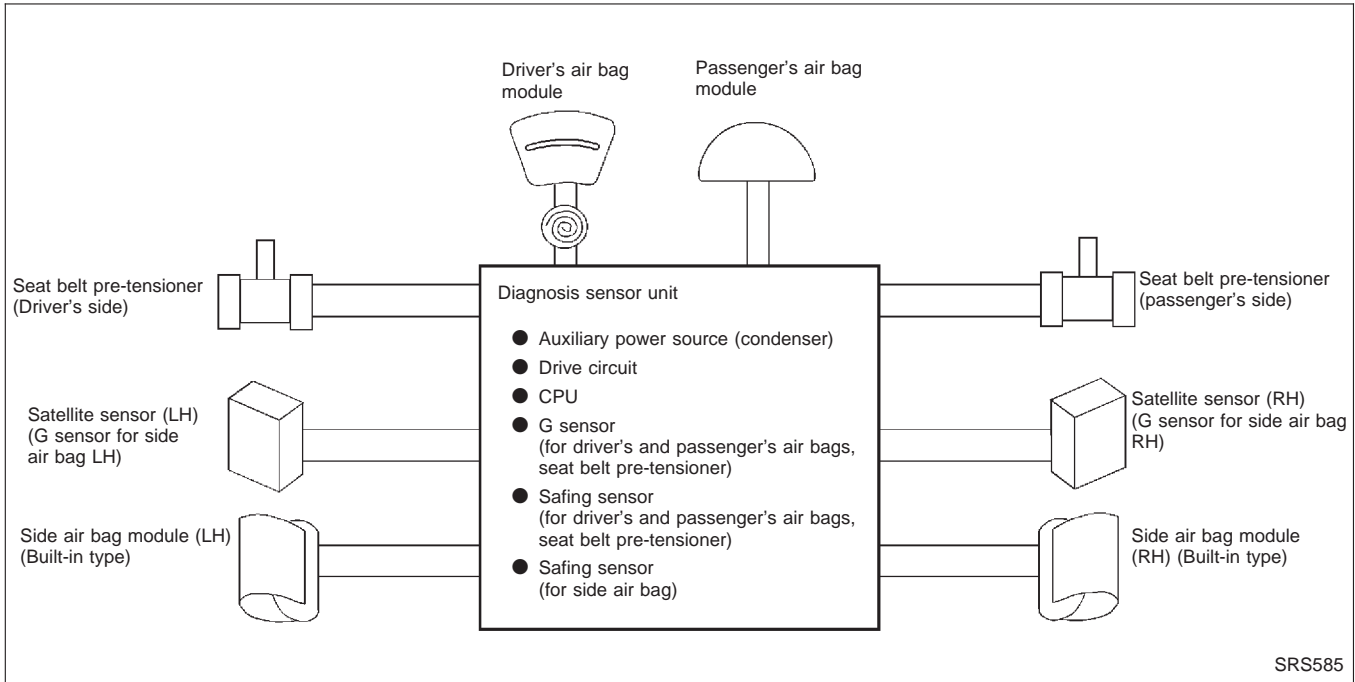
Special Service Tools (Cont'd)

Tool number Tool name	Description
KV99108200 Deployment tool adapter for front seat belt pre- tensioner	<p data-bbox="899 310 1052 352">For front seat belt pre-tensioner</p>  <p data-bbox="451 485 505 506">NT796</p>
KV99108300 Deployment tool adapt- ers for Passenger and built-in type side air bag modules	<p data-bbox="711 562 959 604">For passenger airbag module and side airbag</p>  <p data-bbox="451 772 505 793">NT744</p>

*: Special tool or commercial equivalent

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Description



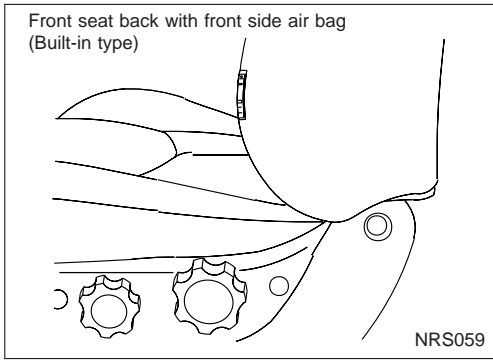
The air bag deploys if the diagnosis sensor unit activates while the ignition switch is in "ON" or "START" position.

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

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

SRS configuration	Frontal collision	Left side collision	Right side collision
Driver's air bag module	○	—	—
Passenger's air bag module	○	—	—
Seat belt pre-tensioner (Driver's side)	○	—	—
Seat belt pre-tensioner (Passenger's side)	○	—	—
Side air bag module (LH)	—	○	—
Side air bag module (RH)	—	—	○

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

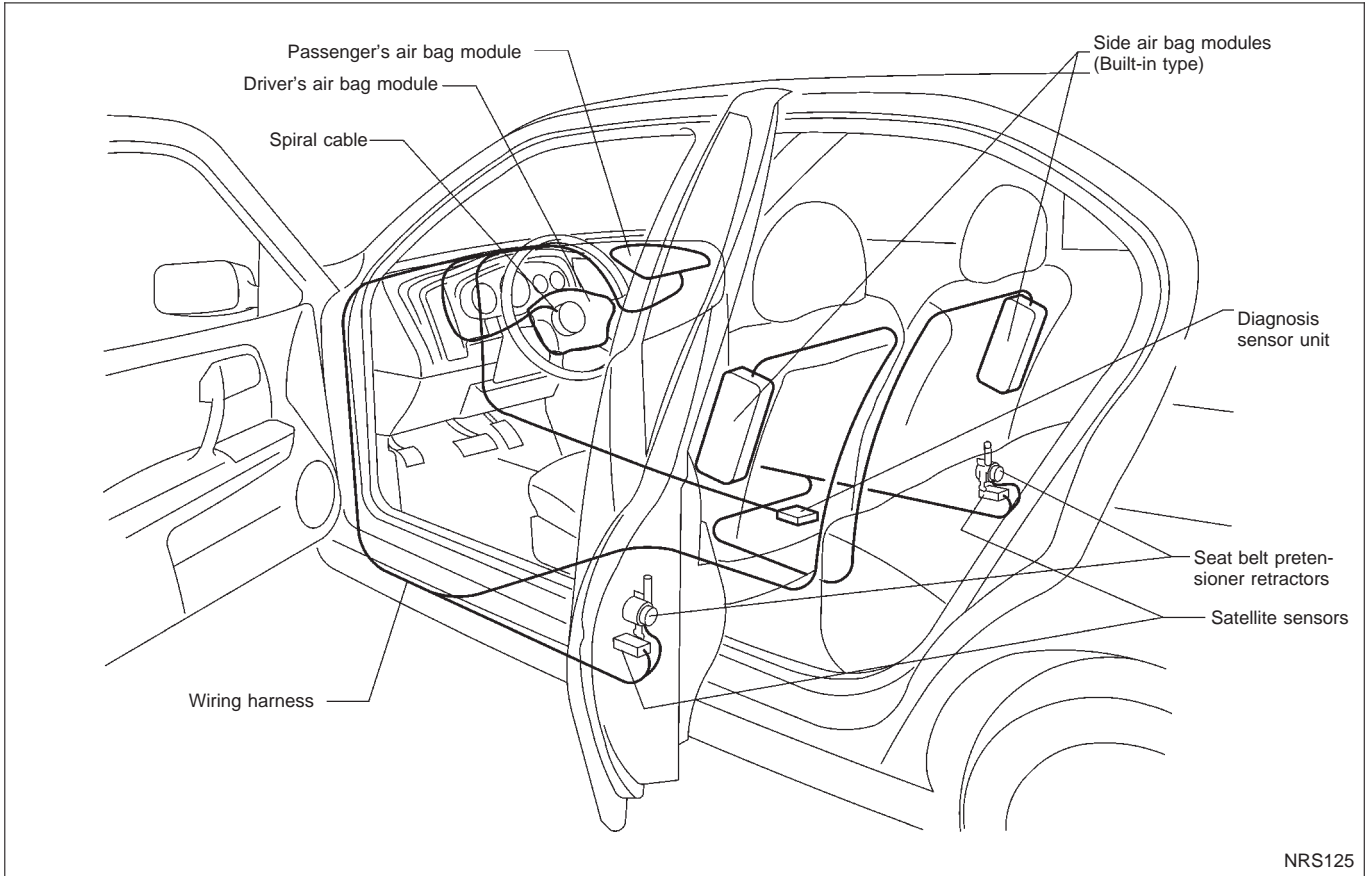


Built-in Type Side Air Bag

Front side air bag is built-in type.

The front seat back with built-in type side air bag has the labels as shown on the left figure.

SRS Component Parts Location





Maintenance Items

CAUTION:

Do not use electrical test equipment to check SRS circuit.

1. Check operation of "AIR BAG" warning lamp.
After turning ignition key to "ON" position, the "AIR BAG" warning lamp illuminates. The "AIR BAG" warning lamp will go off after about 7 seconds if no malfunction is detected. If any of the following warning lamp conditions occur, immediately check the air bag system. Refer to "SRS-Operation Check" for details. (RS-37)
 - The "AIR BAG" warning lamp does not come on when the ignition switch is turned "ON".
 - The "AIR BAG" warning lamp does not go off about 7 seconds after the ignition switch is turned "ON".
 - The "AIR BAG" warning lamp blinks about 7 seconds after the ignition switch is turned "ON".
2. Visually check SRS components.
 - (1) Diagnosis sensor unit
 - Check diagnosis sensor unit and bracket for dents, cracks or deformities.
 - Check connectors for damage, and terminals for deformities.
 - (2) Air bag module and steering wheel
 - Remove air bag module from steering wheel, instrument panel or seat back. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.
 - Install driver's air bag module to steering wheel to check fit or alignment with the wheel.
 - Check steering wheel for excessive free play.
 - Install passenger's air bag module to instrument panel to check fit or alignment with the instrument panel.
 - Install side air bag module to seatback to check fit and alignment with the seat.
 - (3) Spiral cable
 - Check spiral cable for dents, cracks, or deformities.
 - Check connectors and protective tape for damage.
 - Check steering wheel for noise, binding or heavy operation.
 - (4) Main harness, body harness and air bag harness
 - Check connectors for poor connections, damage, and terminals for deformities.
 - Check harnesses for binding, chafing or cuts.
 - (5) Seat belt pre-tensioner
 - Check harness cover and connectors for damage, terminals for deformities, and harness for binding.
 - Check belts for damage and anchors for loose mounting.
 - Check retractor for smooth operation.
 - Perform self-diagnosis for seat belt pre-tensioner using "AIR BAG" warning lamp or CONSULT-II. Refer to "SRS Operation Check" for details. (RS-37)
 - (6) Side airbag (Satellite) sensor
 - Check Side airbag (Satellite) sensor (including bracket portion) for dents, cracks or deformities.
 - Check connectors for damage, and terminals for deformities.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

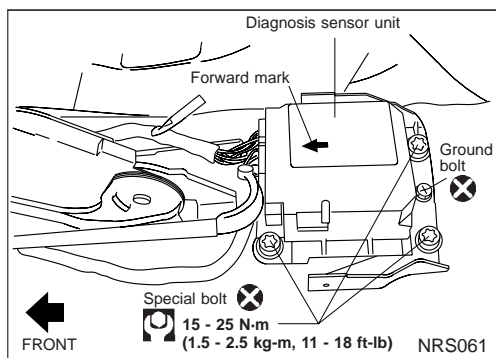
CAUTION:

Replace previously used special bolts, ground bolt and nuts coated with bonding agent and also the anchor bolt with new ones.

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

CAUTION:


- Before servicing SRS, turn the ignition switch “OFF”, disconnect both battery cables and wait at least 3 minutes.
- The special bolts are coated with bonding agent while the other bolt is for ground. Do not use old bolts after removal; replace with new ones.
- Check diagnosis sensor unit, seat belt pre-tensioner and satellite sensor for proper installation.
- Check diagnosis sensor unit and satellite sensor to ensure they are free of deformities, dents, cracks or rust. If it shows any visible signs of damage, replace them with new ones.
- Check diagnosis sensor unit brackets to ensure they are free of deformities and rust.
- After replacement of diagnosis sensor unit, seat belt pre-tensioner and satellite sensor check SRS function and perform self-diagnosis for SRS. Refer to “SRS Operation Check” for details. (RS-37)
- Do not attempt to disassemble diagnosis sensor unit, seat belt pre-tensioner and satellite sensor
- Replace diagnosis sensor unit, seat belt pre-tensioner and satellite sensor if it has been dropped or sustained an impact.
- Do not expose seat belt pre-tensioner to temperatures exceeding 80°C (176°F).

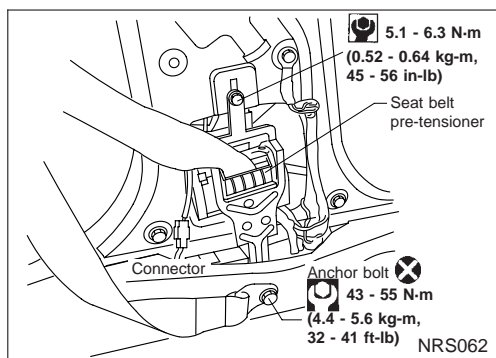


REMOVAL OF DIAGNOSIS SENSOR UNIT

1. Disconnect driver's, passenger's- and side air bag module connectors. Also, disconnect seat belt pre-tensioner connector.
 2. Remove lower instrument center panel. Refer to “INSTRUMENT PANEL” in BT section.
 3. Disconnect diagnosis sensor unit connector.
 4. Remove ground bolt and the special bolts by using the TAMPER RESISTANT TORX (Size T50), from diagnosis sensor unit.
- Then remove the diagnosis sensor unit.

NOTE:

- To install, reverse the removal procedure sequence.
- Diagnosis sensor unit must always be installed with their arrow marks “” pointing towards the front of the vehicle for proper installation.



REMOVAL OF SEAT BELT PRE-TENSIONER

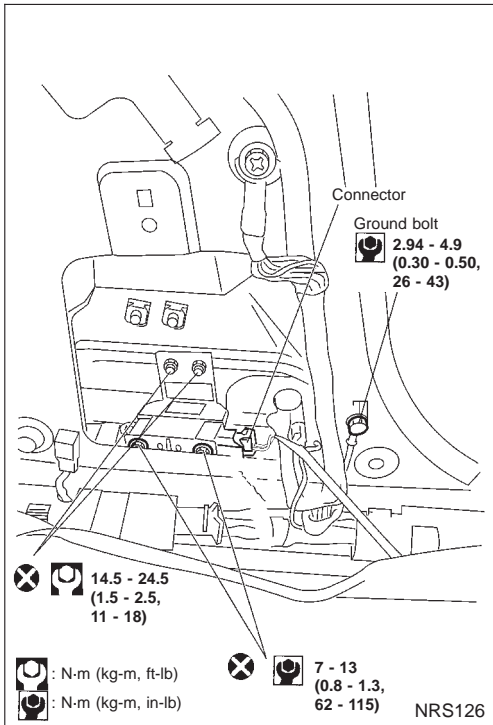
For removal of seat belt pre-tensioner, refer to “Front Seat Belt” for details. (RS-3)

NOTE:

- To install, reverse the removal procedure sequence.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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



REMOVAL SATELLITE SENSOR

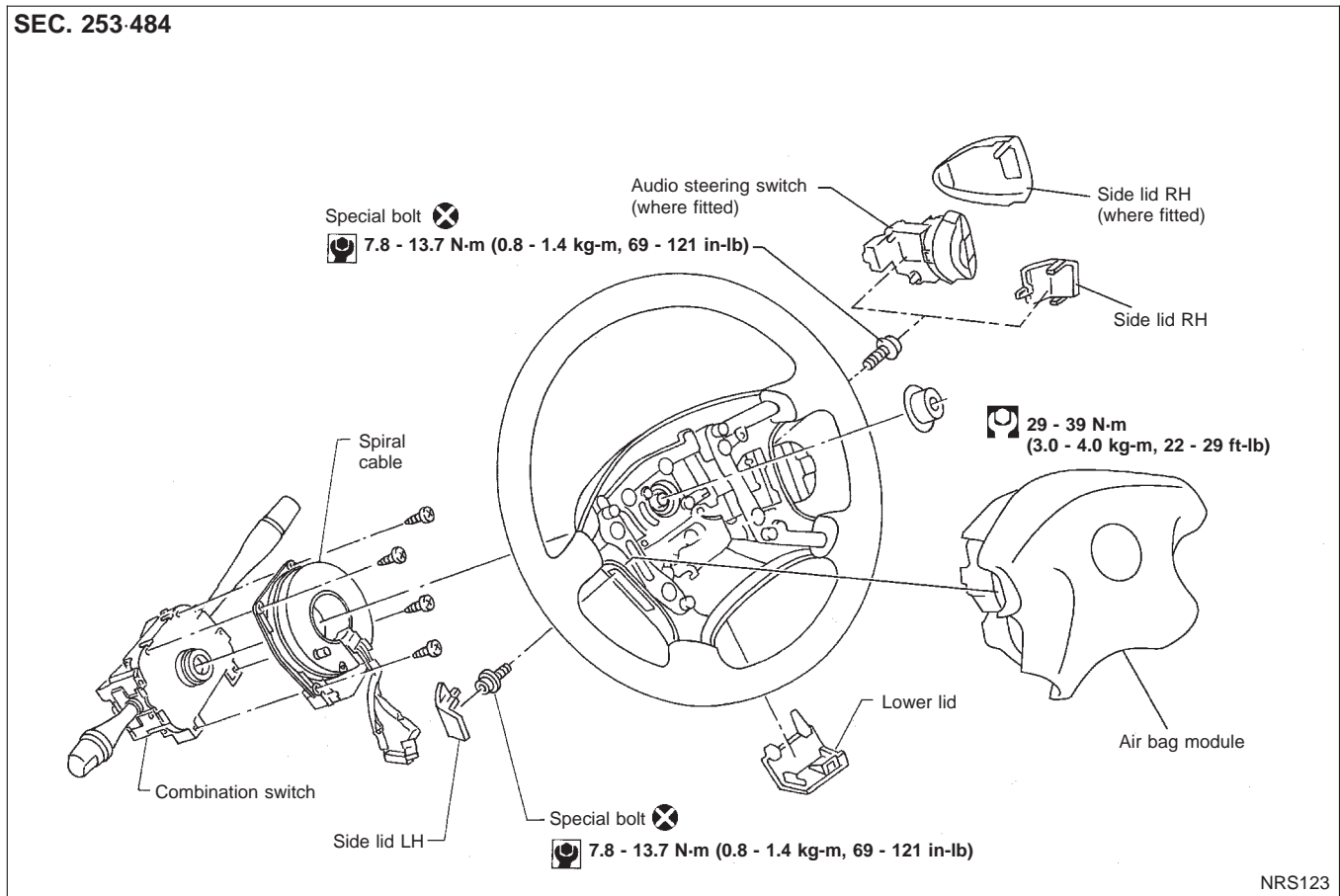
1. Remove seat belt pre-tensioner. Refer to "Front Seat Belt" for details. (RS-3)
2. Disconnect satellite sensor connector.
3. Remove bolt and nuts from satellite sensor unit. Then remove the satellite sensor.

NOTE:

- To install, reverse the removal procedure sequence.

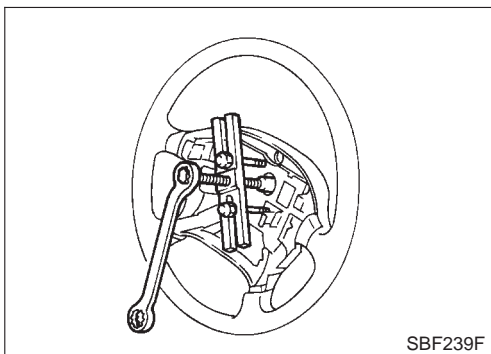
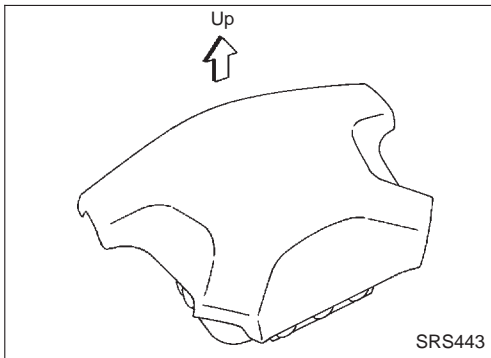
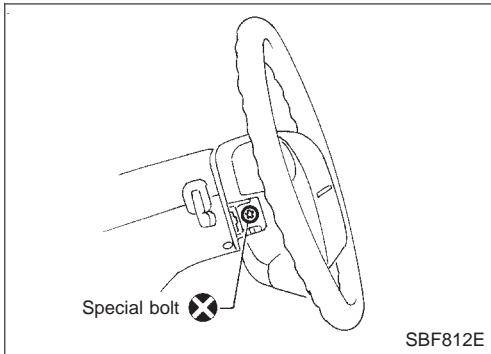
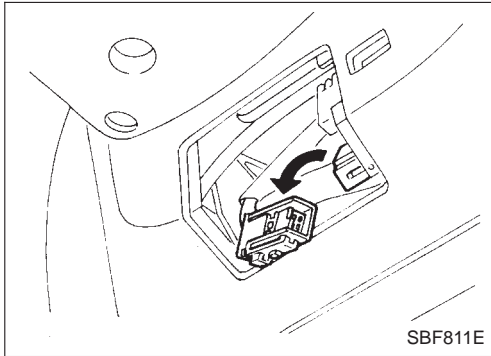
Removal — Air Bag Module and Spiral Cable

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SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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



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 air bag module.

1. Remove lower lid from steering wheel, and disconnect air bag module connector.
2. Remove side lids. Using the TAMPER RESISTANT TORX (Size T50), remove left and right special bolts. Air bag module can then be removed.

CAUTION:

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

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

3. Set steering wheel in the neutral position, with the front wheels straight ahead.
4. Disconnect horn connector and remove nut.
5. Using steering wheel puller, remove steering wheel. Be careful not to over-tighten puller bolt on steering wheel.

CAUTION:

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

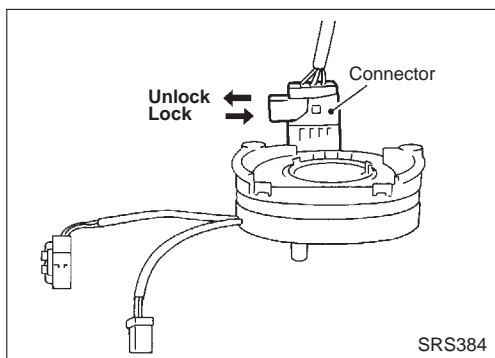
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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

7. Disconnect connector and remove the four screws. The spiral cable can then be removed.

CAUTION:

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

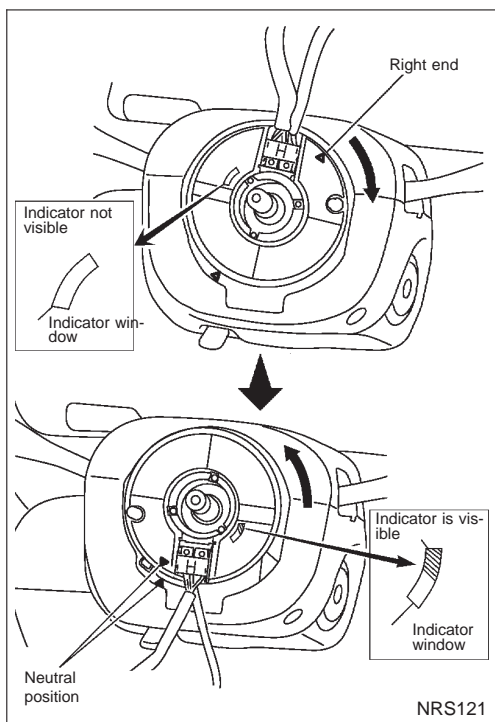


Installation — Air Bag Module and Spiral Cable

1. Set the front wheels in the straight-ahead position.
2. Make sure that the spiral cable is in the neutral position. The neutral position is detected by turning left (clock wise) about 3.5 revolutions from the right end position. Align the two marks (∇) or make sure the white indicator is visible in the upper part of the indicator window, with the cable pointed down wards.

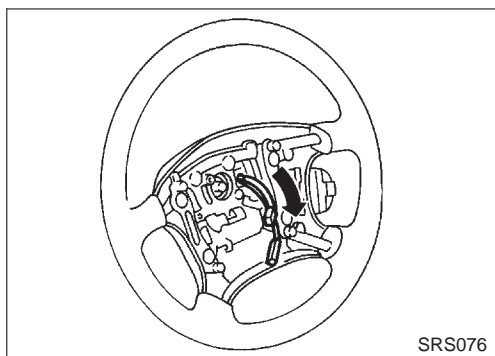
CAUTION:

- The spiral cable may snap during steering operation if the cable is installed incorrectly.
 - Also, with the steering linkage disconnected, the cable may snap by turning the steering wheel beyond the limited number of turns. (The spiral cable can be turned up to 3.5 turns from the neutral position to both the right and left.)
3. Connect spiral cable connector and tighten with screws. Install steering column cover.

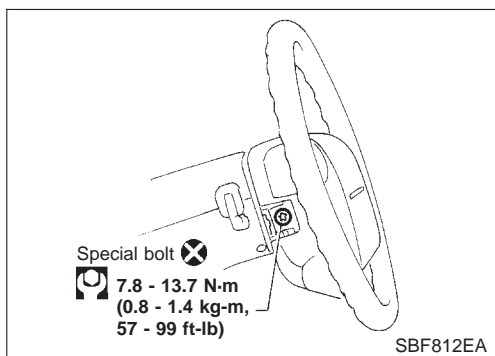


4. Install steering wheel setting spiral cable pin guides, and pull spiral cable through.
5. Connect horn connector and engage spiral cable with pawls in steering wheel. Move other connectors away from steering wheel lower lid opener.
6. Tighten nut.

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



7. Position the driver's air bag module and tighten with new special bolts.
- Always service the air bag module from the side.
8. Connect other connectors.
9. Install all lids and steering switch (where fitted).
10. Connect both battery cables.
11. Conduct self-diagnosis to ensure entire SRS operates properly. (Use CONSULT-II or warning lamp check.)
12. Turn steering wheel to the left end and then to the right end fully to make sure that spiral cable is set in the neutral position.

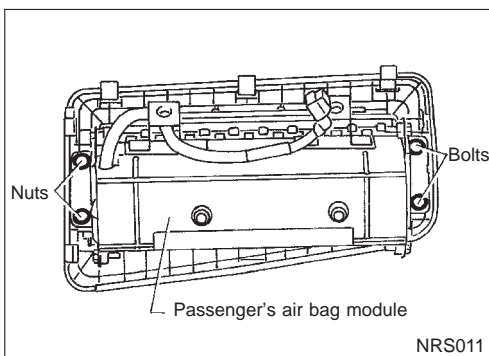
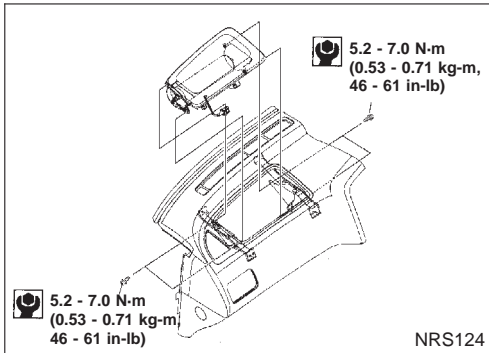
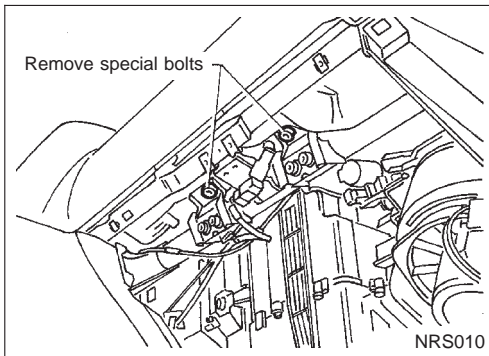
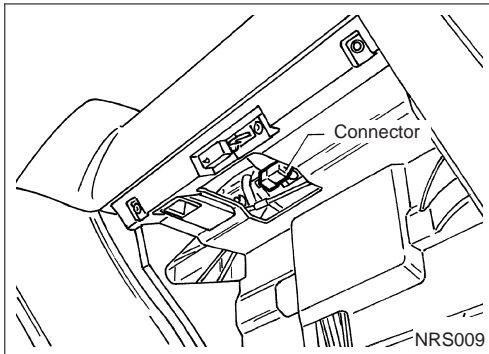


SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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

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

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



Removal — Front Passenger's Air Bag Module

CAUTION:

- Before servicing SRS, turn the ignition switch "OFF", disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of or under air bag module.
 1. Open the glove box lid.
 2. Disconnect inflator connector from body harness air bag connector.
 3. Remove glove box assembly. Refer to "INSTRUMENT PANEL" in BT section for details.
 4. Remove the bolts and special bolts using the TAMPER RESISTANT TORX (Size T50) from front passenger's air bag module.Take out the air bag module from the instrument panel.
- The air bag module is heavy and should be supported using both hands during removal.

CAUTION:

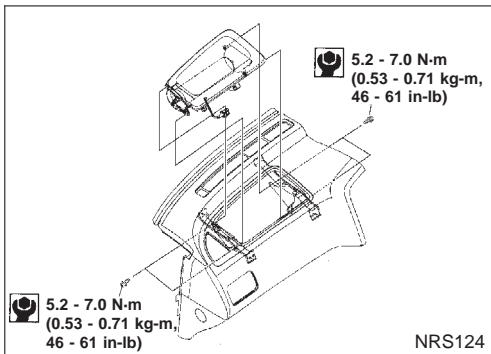
- Always place air bag module with pad side facing upward.
- Do not attempt to disassemble air bag module.
- The special bolts are coated with bonding agent. Do not use old bolts after removal; replace with new coated bolts.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module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

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



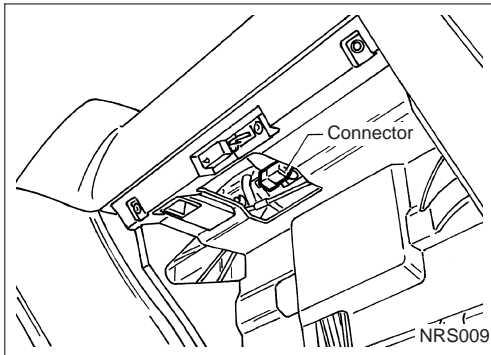
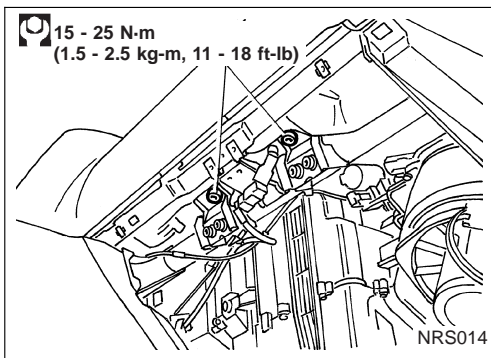
Removal — Front Passenger's Air Bag Module (Cont'd)

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



Installation — Front Passenger's Air Bag Module

- Always work from the side of or under air bag module.
1. Install front passenger's air bag module on steering member.
 - Ensure harness is not caught between rear of air bag module and steering member.
 2. Install lower instrument panel.



3. Connect air bag module connector to air bag harness connector.
4. Install glove box.
5. Connect both battery cables.
6. Conduct self-diagnosis to ensure entire SRS operates correctly. (Use CONSULT-II or warning lamp check).

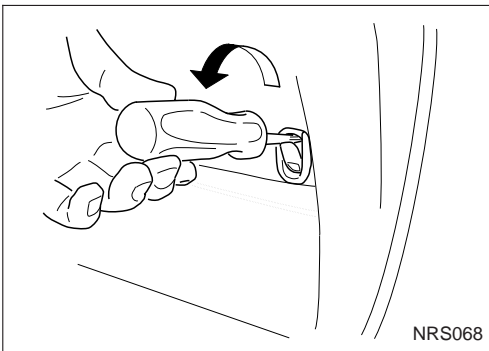
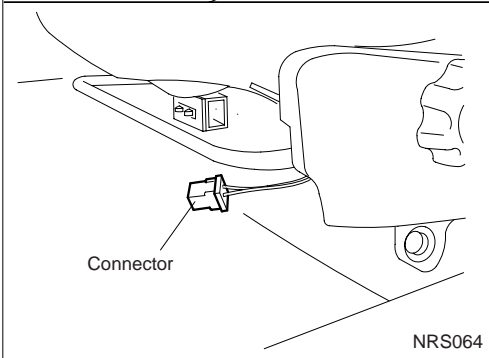
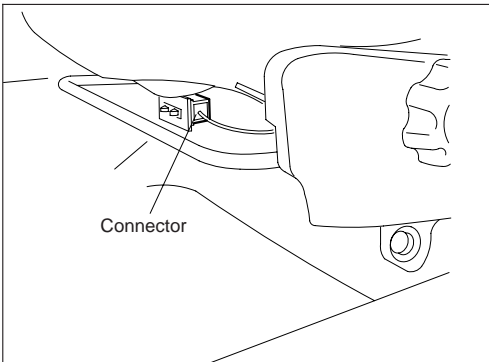
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Removal — Side Air Bag Module

CAUTION:

- Before servicing SRS, turn the ignition switch “OFF”, disconnect both battery cables and wait at least 3 minutes.

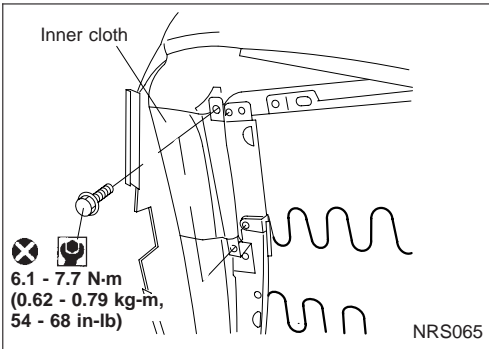
1. Slide the front seat all the way forward.
2. Disconnect side air bag module connector under the seat.
(The connector with a different shape is for a side air bag module of Renault make.)



3. Remove screw securing the front seat convenience hook (where fitted).

- When using a clip removal tool to remove the seat back finisher, take care not to damage the air bag harness.

4. Remove the seat back board.

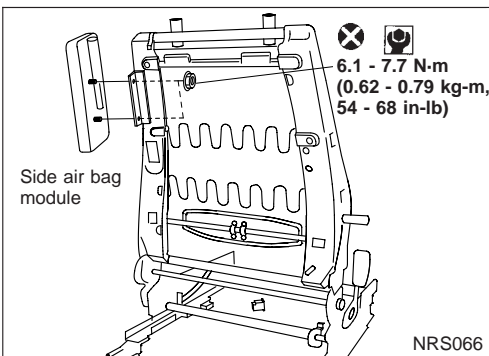


5. Pull up the seat back trim.

6. Remove the bolts securing the inner cloth with seat back frame.

Then pull up the inner cloth.

7. Remove the seat back trim. Refer to “Front Seat” in BT section for details.



8. Remove the torx nuts coated with bonding agent from the side air bag module.

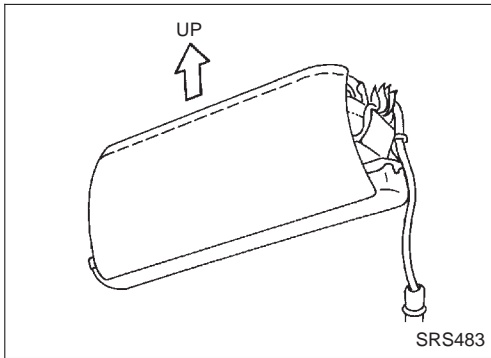
9. Remove side air bag connector. Side air bag module can then be removed.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Removal — Side Air Bag Module (Cont'd)

CAUTION:

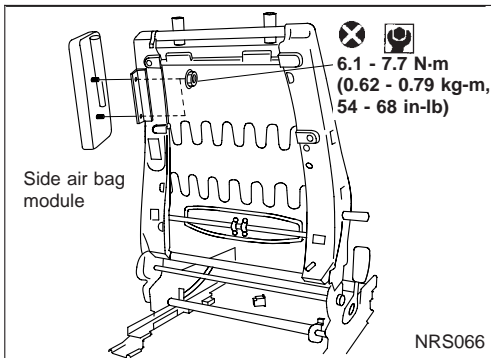
- Always place the air bag module with the stud bolts side facing down.
- Do not attempt to disassemble air bag module.
- The torx nuts are coated with bonding agent. Do not use old nuts after removal; replace with new coated nuts.
- Do not insert any foreign objects (screwdriver, etc.) into air bag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



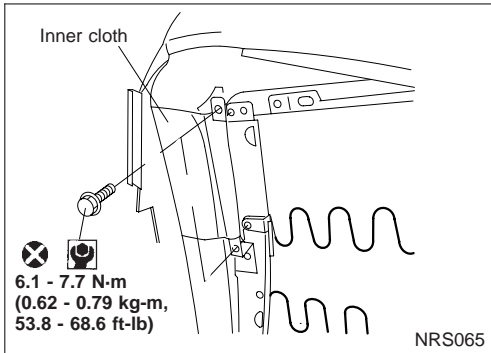
- Replace air bag module if it has been dropped or sustained an impact.
- Do not expose the air bag module to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the air bag module.
- After air bag inflates, all parts of front seat back (including front seat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

Installation — Side Air Bag Module

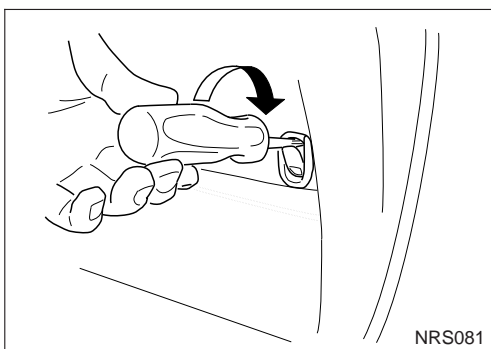
1. Install side air bag module on seat back frame with new torx nuts coated with bonding agent.



2. Install the seat back trim. Refer to "Front Seat" in BT-section.
3. Secure the inner cloth which covers the side air bag module with bolts.



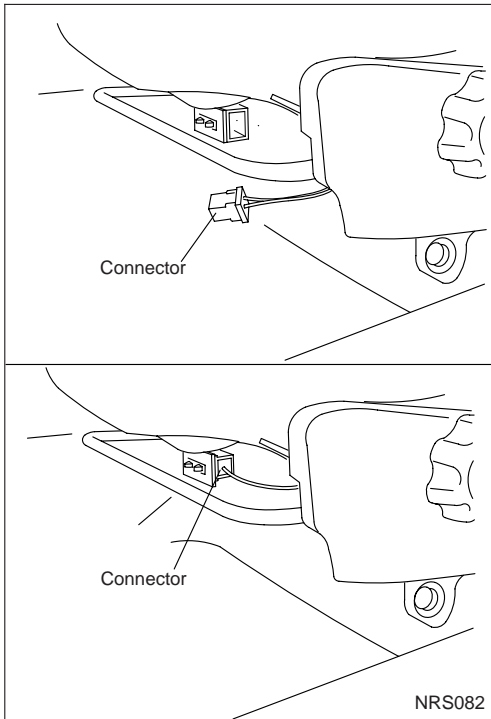
4. Install the seat back board with new clips.
5. Install the front seat convenience hook (where fitted) and secure with screw.



SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

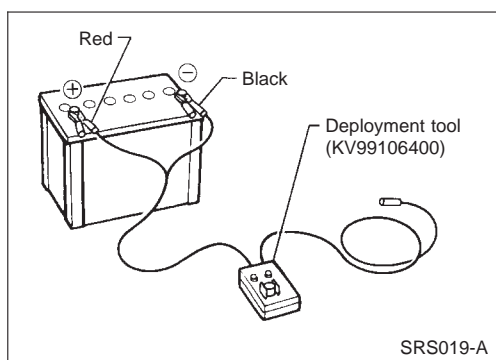
Installation — Side Air Bag Module (Cont'd)

6. Connect side air bag module connector.
7. Connect both battery cables.
8. Go to "SRS Operation Check", RS-37 and perform self-diagnosis to ensure entire SRS operates properly. (Use CONSULT-II or AIR BAG warning lamp).



Disposal of Air Bag Module and Seat Belt Pre-tensioner

- Before disposing of air bag module and seat belt pre-tensioner, or vehicles equipped with such systems, deploy the systems. If such systems have already been deployed due to an accident, dispose of as indicated in “DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER” (RS-27).
- When deploying the air bag module and seat belt pre-tensioner, always use the Special Service Tool; Deployment tool KV99106400.
- When deploying the air bag module and seat belt pre-tensioner, stand at least 5 m (16 ft) away from deployment component.
- When deploying air bag module and seat belt pre-tensioner a fairly loud noise is made, followed by smoke being released. The smoke is not poisonous, however, be careful not to inhale smoke since it irritates the throat and can cause choking.
- Always activate one air bag module at a time.
- Due to heat, leave air bag module unattended for more than 30 minutes after deployment. Also leave seat belt pre-tensioner unattended for more than 10 minutes after deployment.
- Be sure to wear gloves when handling a deployed air bag module and seat belt pre-tensioner.
- Never apply water to a deployed air bag module and seat belt pre-tensioner.
- Wash your hands clean after finishing work.
- Place the vehicle outdoors with an open space of at least 6 m (20 ft) on all sides when deploying air bag module and seat belt pre-tensioner while mounted in vehicle.
- Use a voltmeter to make sure the vehicle battery is fully charged.
- Do not dispose of the air bag module and seat belt pre-tensioner un-deployed.



CHECKING DEPLOYMENT TOOL

Connecting to battery

CAUTION:

The battery must show voltage of 9.6V or more.

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

- Wait 3 minutes after the vehicle battery is disconnected before proceeding.
- Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.

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

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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

Deployment tool check

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

Air bag deployment tool lamp illumination chart (Battery connected)

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

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

DEPLOYMENT PROCEDURES FOR AIR BAG MODULE AND SEAT BELT PRE-TENSIONER (OUTSIDE OF VEHICLE)

Unless the vehicle is being scrapped, deploying the air bag module and seat belt pre-tensioner in the vehicle is not recommended. This may cause damage to the vehicle interior. Anchor air bag module and seat belt pre-tensioner in a vise secured to a firm foundation during deployment.

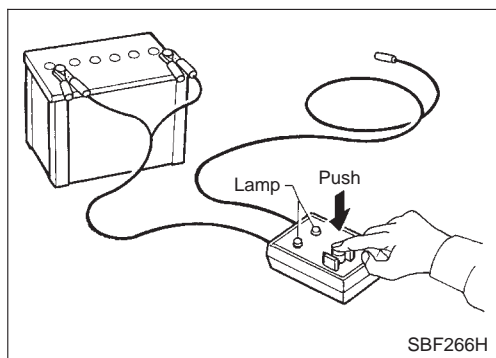
Deployment of Driver's Air Bag Module (Outside of vehicle)

- Using wire, secure air bag module to air bag module bracket [SST: KV99105300] at two places.

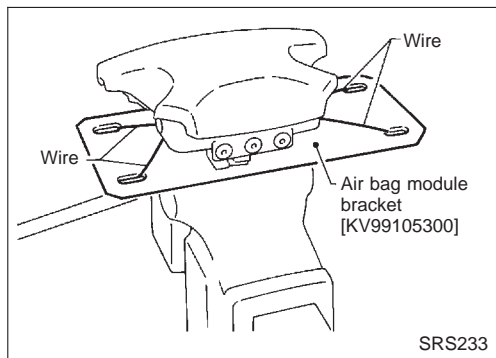
CAUTION:

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

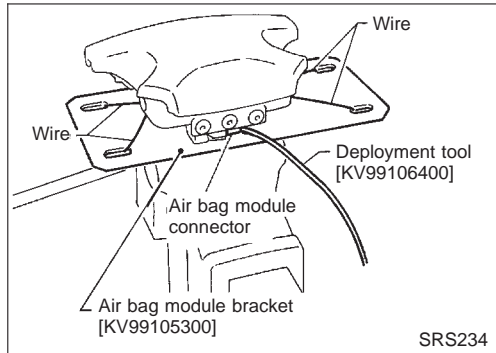
- Attach tightly the air bag module bracket [SST: KV99105300] with air bag module in a vise.



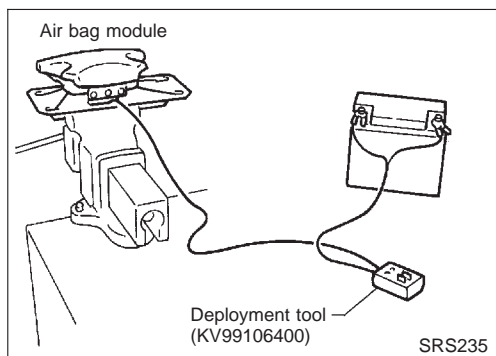
SBF266H



SRS233



SRS234



SRS235

- Connect deployment tool [SST: KV99106400] to air bag module connector.

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

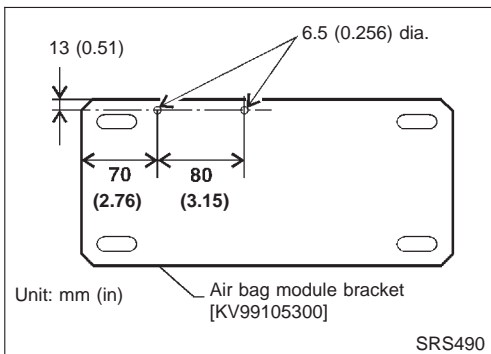
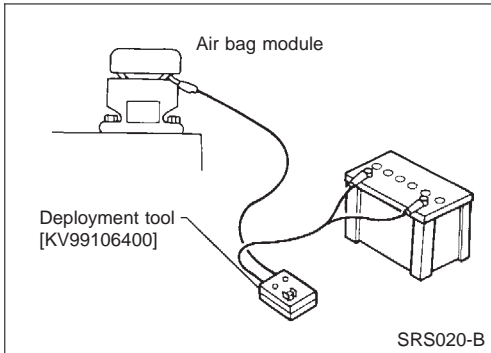
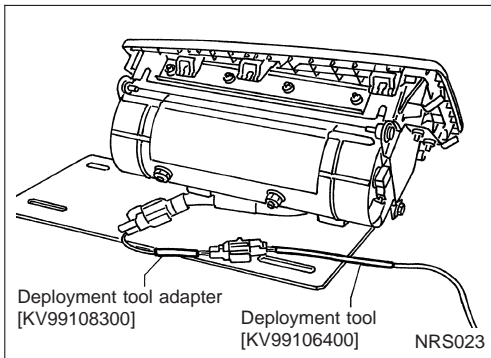
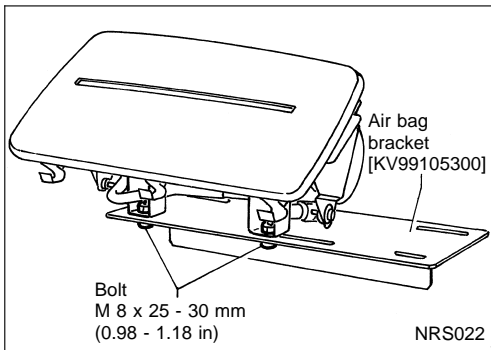
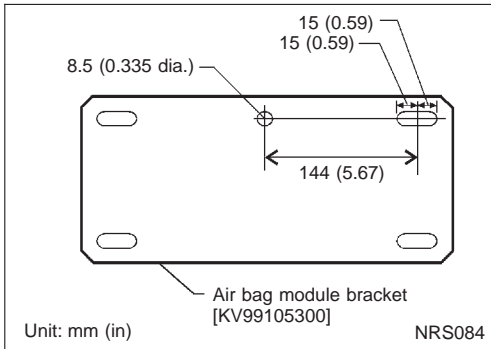
CAUTION:

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 and Seat Belt Pre-tensioner (Cont'd)

Deployment of Passenger's Air bag Module (outside of vehicle)



1. Make an 8.5 mm (0.335 in) diameter hole in air bag module bracket [SST: KV99105300] at the position as shown in the left figure.
2. Attach tightly the air bag module bracket [SST: KV99105300] in a vise.
3. Match the two holes in air bag module bracket (held in vise) and passenger's air bag module and fix them with two bolts [M 8 x 25 - 30 mm (0.98 - 1.18 in)].

CAUTION:

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

4. Connect deployment tool adapter [SST: KV99108300] to deployment tool [SST: KV99106400] connector and 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.

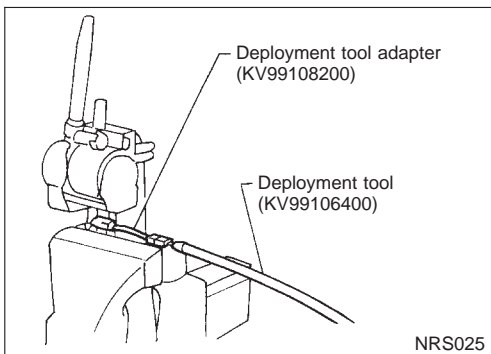
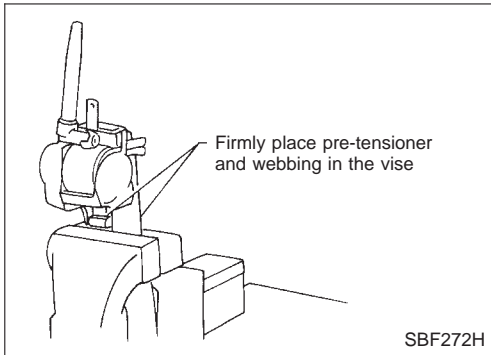
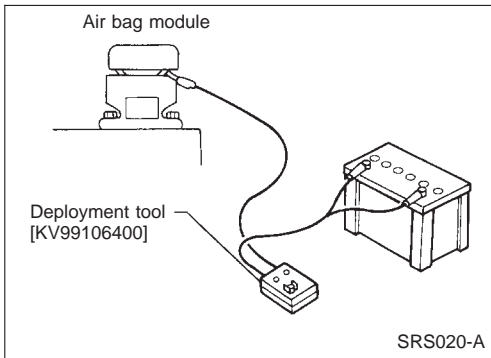
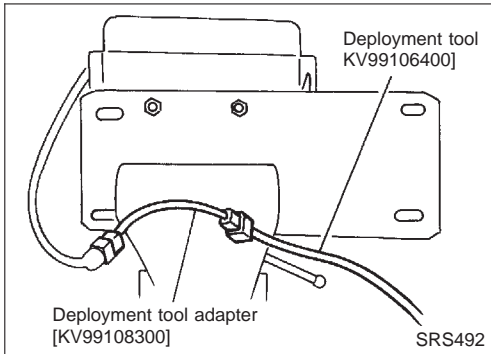
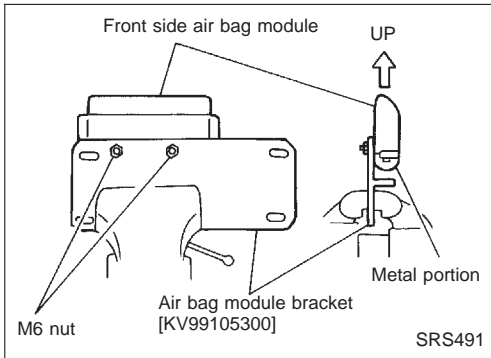
CAUTION:

When deploying the air bag module, stand at least 5 m (16 ft) away from the air bag module and do not stand on the deploying side.

Deployment of Side Air bag Module (outside of vehicle)

1. Make 6.5 mm (0.256 in) diameter holes in air bag module bracket [SST: KV99105300] at the position as shown on the left figure.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



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

2. Attach tightly the air bag module bracket [SST: KV99105300] in a vise.
3. Insert the stud bolts of side air bag module into the two holes in air bag module bracket held in vise and fix them with two M6 nuts.

CAUTION:

Side air bag module should be secured to air bag module bracket [SST: KV99105300] in a vise with metal portion facing down.

4. Connect deployment tool adapter [SST: KV99108300] to deployment tool [SST: KV99106400] connector and connector on air bag module.

5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
6. The lamp on the right side of the tool, marked "deployment tool power" should glow green, not red.
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.

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

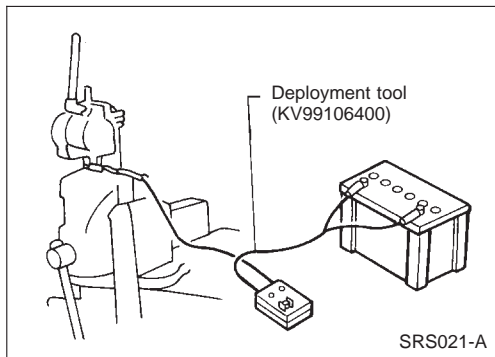
1. Firmly anchor seat belt pre-tensioner in a vise.

CAUTION:

Ensure bracket and webbing are place in the vise.

2. Connect deployment tool adapter [SST: KV99108200] to deployment tool [SST: KV99106400] connector and seat belt pre-tensioner connector.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

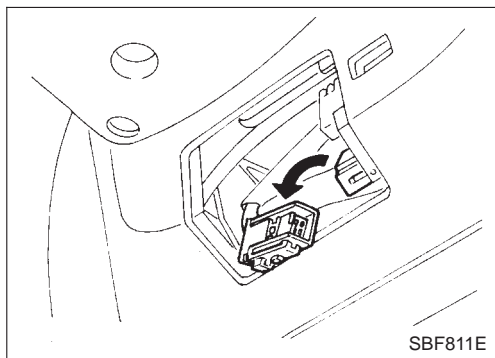


Disposal of Air Bag Module and Seat Belt Pre-tensioner (Cont'd)

3. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
4. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
5. Press the button on the deployment tool. The left side lamp on the tool, marked "seat belt pre-tensioner connector voltage", will illuminate and the seat belt pre-tensioner will deploy.

CAUTION:

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



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 modules or seat belt pre-tensioner, ensure vehicle is empty.

1. Disconnect both the vehicle battery cables and wait 3 minutes.
2. Disconnect air bag modules and seat belt pre-tensioners connector.
3. Connect deployment tool [SST: KV99106400] to air bag module or seat belt pre-tensioner.

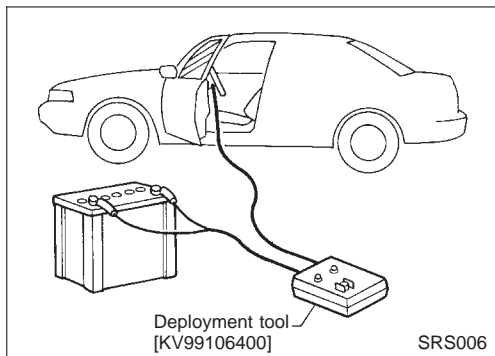
For front passenger's air bag module and front side air bag module (built-in type), attach deployment tool adapter [SST: KV99108300] to the tool connector.

For seat belt pre-tensioner attach deployment tool adapter [SST: KV99108200].

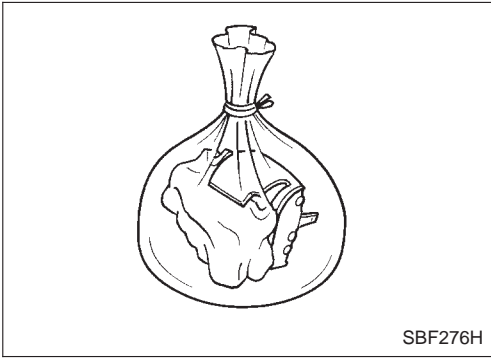
4. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
5. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
6. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector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

CAUTION:

Activate only one passenger's air bag module or seat belt pre-tensioner at a time.



SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



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

DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag modules and seat belt pre-tensioners are very hot. Before disposing of air bag module, and seat belt pre-tensioner, wait at least 30 minutes, and 10 minutes, respectively. Seal them in a plastic bag before disposal.

CAUTION:

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

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 SRS wiring harnesses (except “SEAT BELT PRE-TENSIONER CONNECTOR”) can be identified by yellow harness connector (and with yellow harness protector or yellow insulation tape before the harness connectors).
- Do not attempt to repair, splice or modify the SRS wiring harness. If the harness is damaged, replace it with a new one.
- Keep ground portion clean.

DIAGNOSIS FUNCTION

The SRS self-diagnosis results can be read by using “AIR BAG” warning lamp and/or CONSULT-II. 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-II are as follows:

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

- Seat belt pre-tensioner system can only be diagnosed by CONSULT-II.

DIAGNOSIS MODE FOR CONSULT-II

- 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-II screen in real time. This refers to a malfunctioning part requiring repairs.
- SELF-DIAG [PAST]
Diagnosis results previously stored in the memory (also indicated by the warning lamp flashes in the Diagnosis mode) are displayed on the CONSULT-II 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-II screen.
- “ECU DISCRIMINATED NO.”
The diagnosis sensor unit for each vehicle model is assigned with its own, individual classification number (refer to the table below). This number will be displayed on the CONSULT-II screen. 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.

For NISSAN MODEL P11, the diagnosis sensor unit classification numbers are as follows:

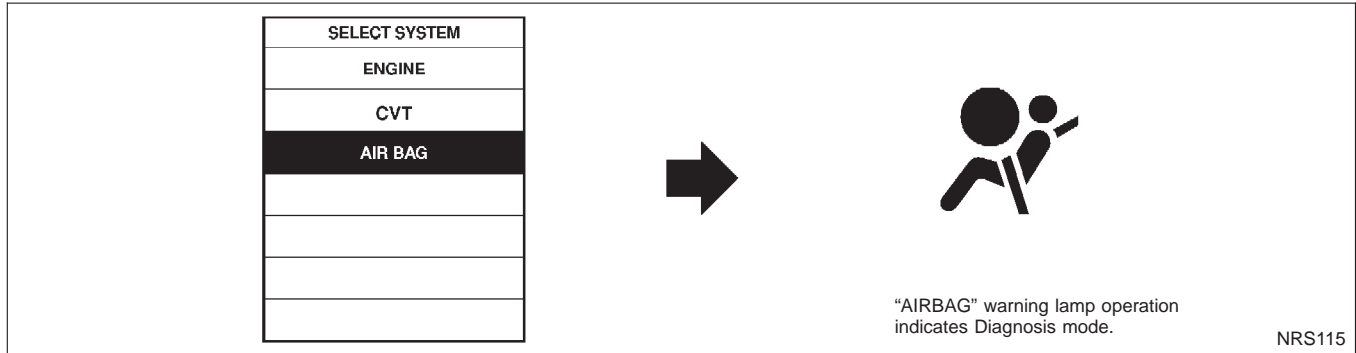
MODEL	ECU DISCRIMINATED NO.
Models with single air bag and seat belt pre-tensioner	A914
Models with dual air bags and seat belt pre-tensioner	A915
Models with dual air bags, side air bag and seat belt pre-tensioner	A916

HOW TO CHANGE SELF-DIAGNOSIS MODE

① With CONSULT-II

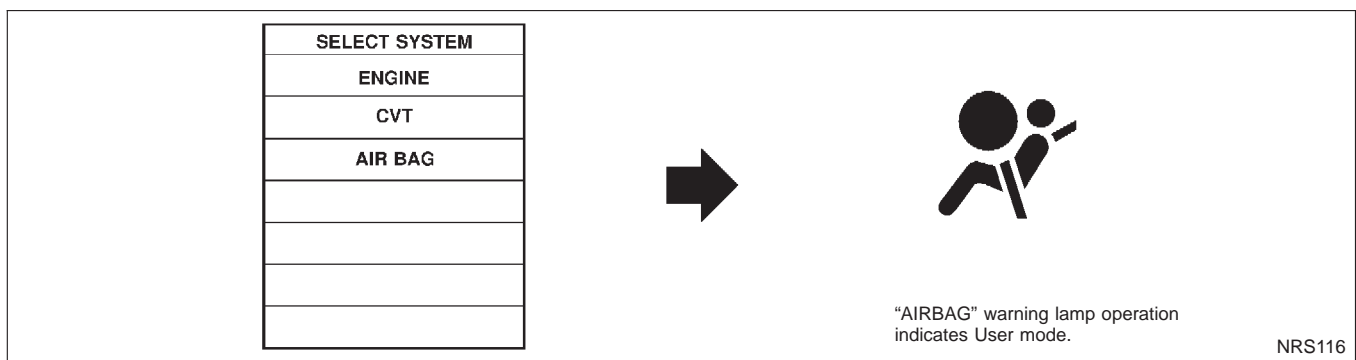
From User mode to Diagnosis mode

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.



⊗ How to Change Self-diagnosis Mode without CONSULT-II

From User Mode to Diagnosis Mode

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

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:

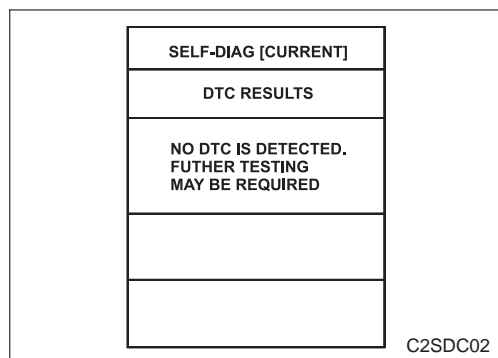
- 1) Turn ignition switch “ON”.
- 2) After “AIR BAG” warning lamp lights for 7 seconds, turn ignition switch “OFF” within 1 second.
- 3) Wait more than 3 seconds.
- 4) Repeat steps 1 to 3 three times.
- 5) Turn ignition switch “ON”.

HOW TO ERASE SELF-DIAGNOSIS RESULTS

④ With CONSULT-II

- “SELF-DAIG [CURRENT]”

A current Self-diagnosis result is displayed on the CONSULT-II 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-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.

NOTE:

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

- “TROUBLE DIAG RECORD”

The memory of “TROUBLE DIAG RECORD” cannot be erased.

⊗ Without CONSULT-II

After a malfunction is repaired, return to User mode from Diagnosis mode by switching the ignition “OFF” for at least 1 second, then back “ON”. Diagnosis mode returns to the User mode. At that time, self-diagnosis result is cleared.

How to Perform Trouble Diagnoses for Quick and Accurate Repair

A good understanding of the malfunction conditions can make troubleshooting faster and more accurate. In general, each customer feels differently about a malfunction. It is important to fully understand the symptoms or conditions for a customer complaint.

INFORMATION FROM CUSTOMER

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

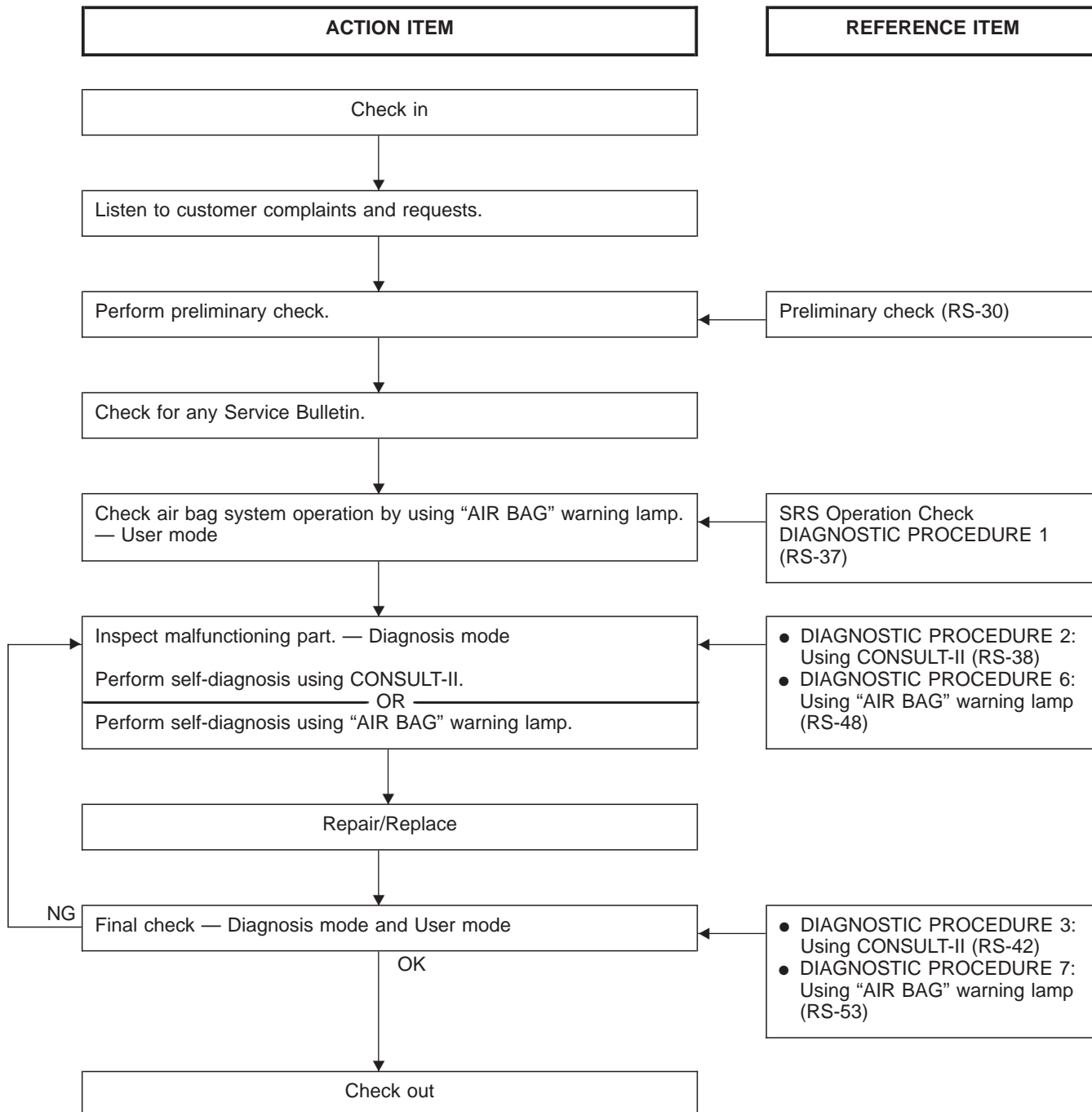
PRELIMINARY CHECK

Check that the following parts are in good order.

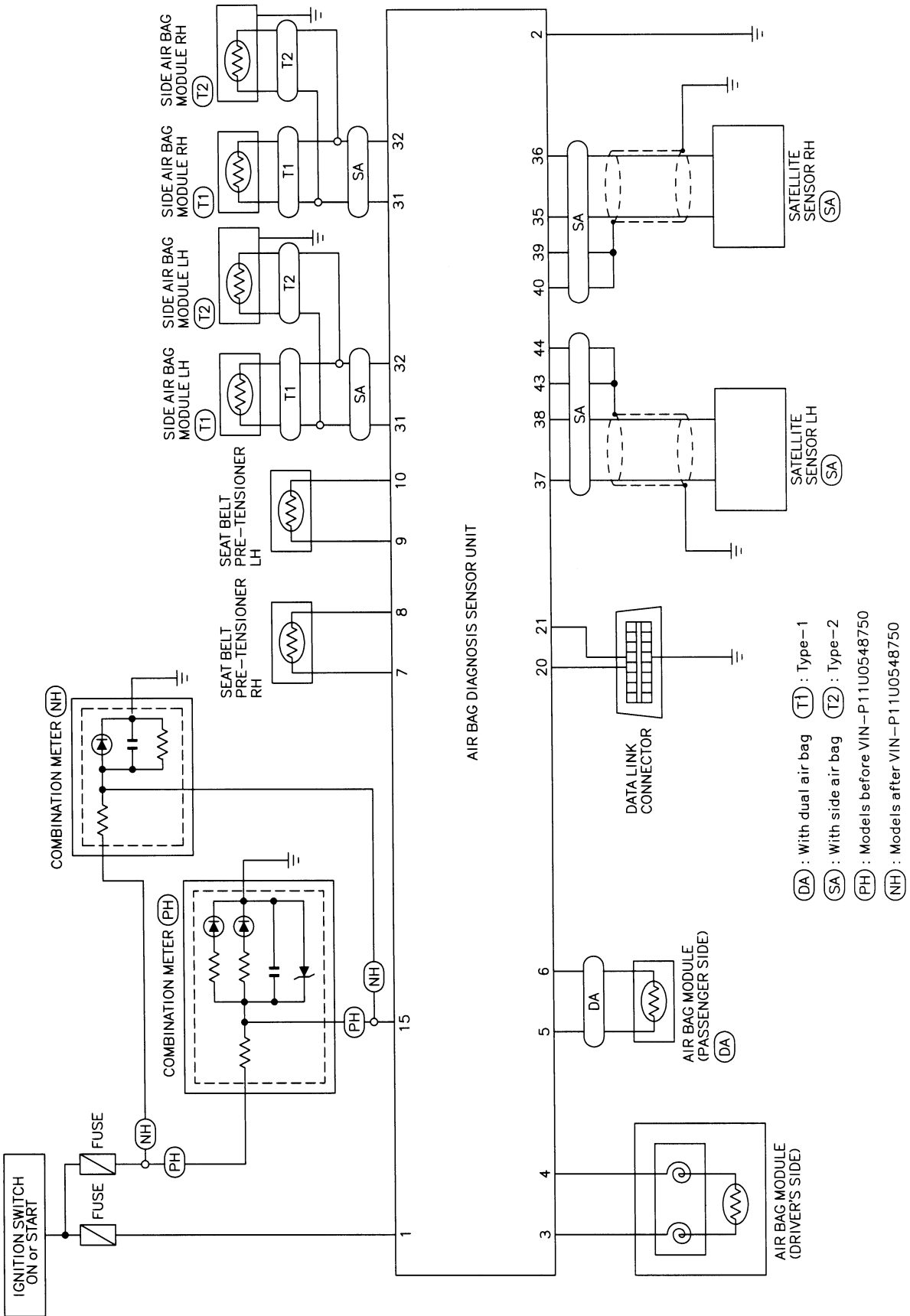
- Battery [Refer to EL section (“BATTERY”).]
- Fuse [Refer to EL section (“Fuse”, “POWER SUPPLY ROUTING”).]
- System component-to-harness connections

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

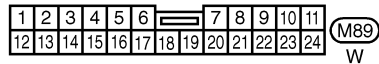
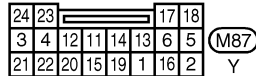
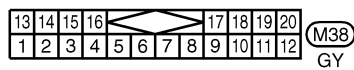
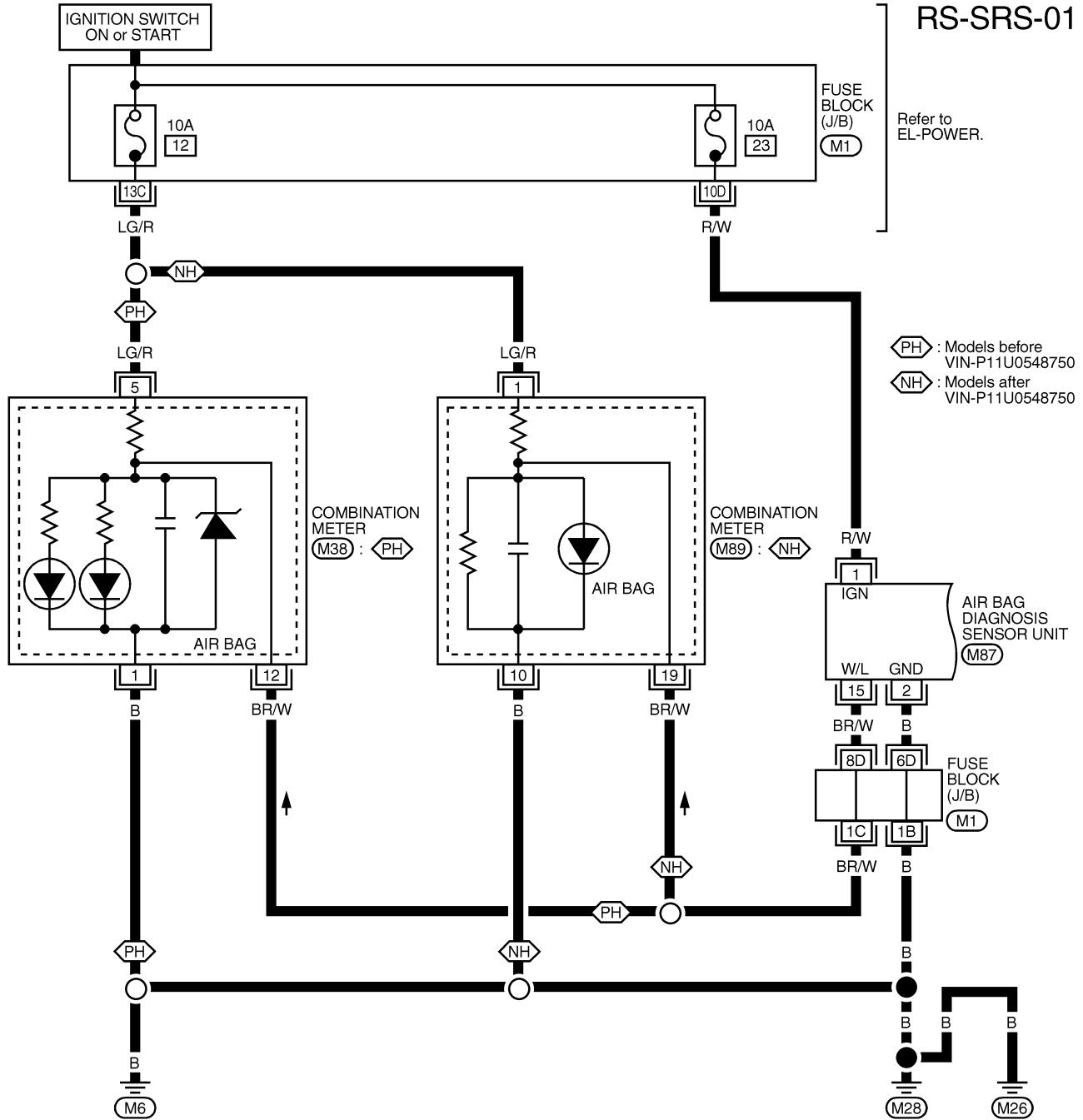
How to Perform Trouble Diagnoses for Quick and Accurate Repair (Cont'd)



Schematic



Wiring Diagram — SRS —



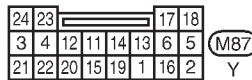
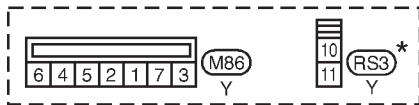
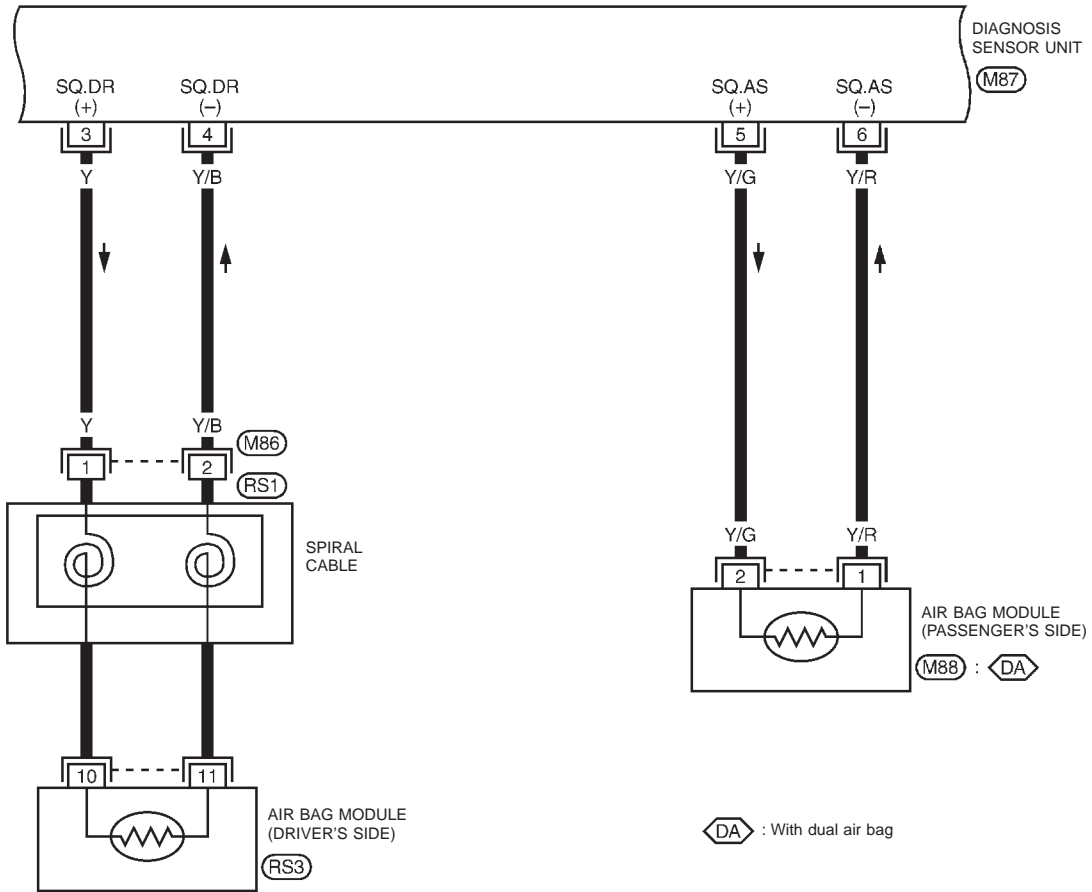
REFER TO THE FOLLOWING.

(M1) FUSE BLOCK-JUNCTION BOX (J/B)

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Wiring Diagram — SRS — (Cont'd)

RS-SRS-02



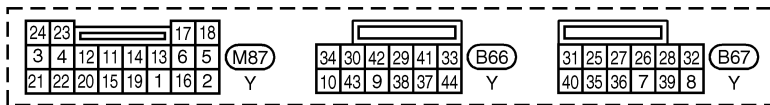
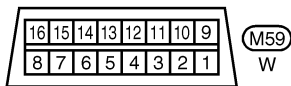
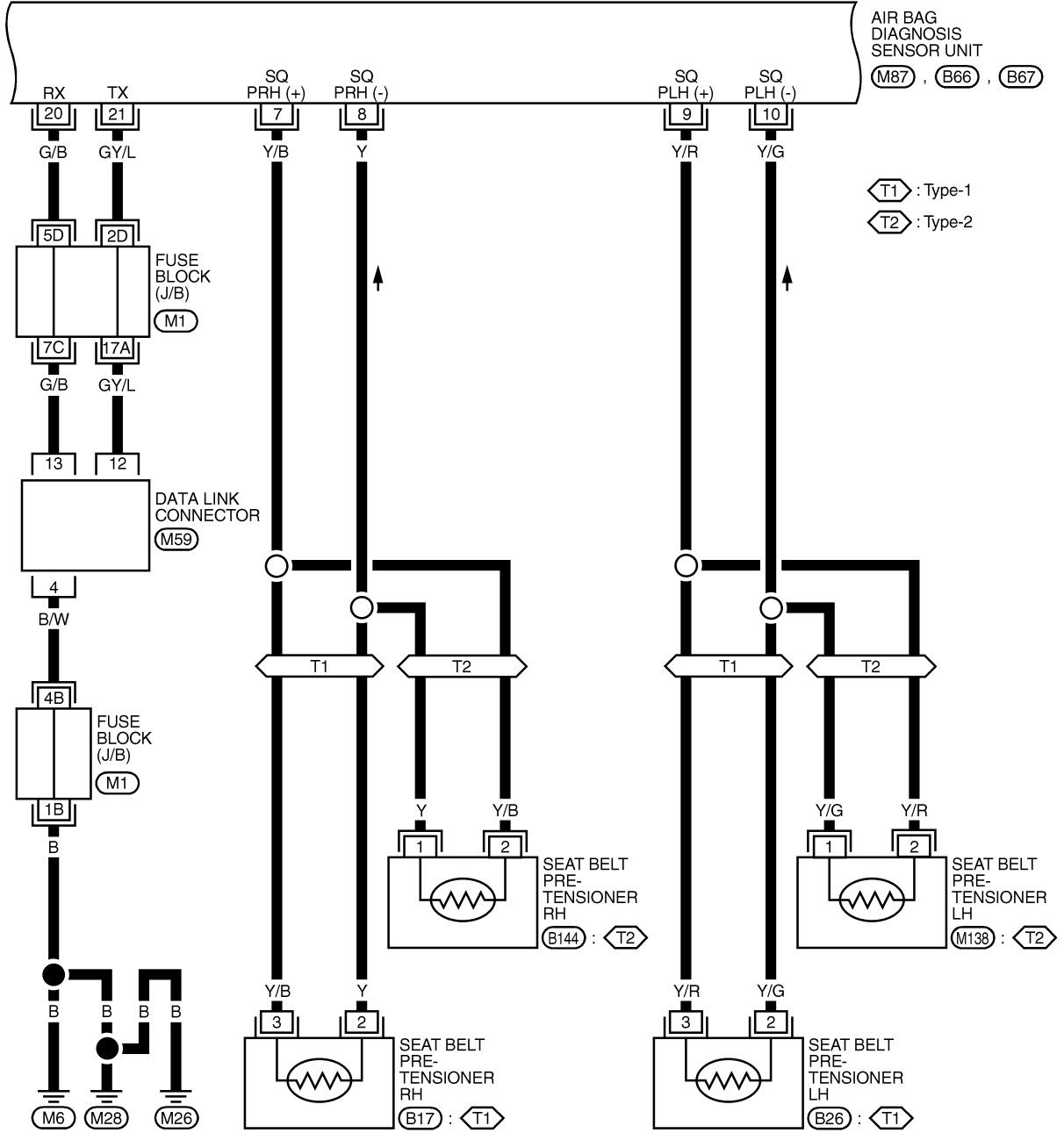
* This connector is not shown in "HARNESS LAYOUT" of EL section.

YRS049

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Wiring Diagram — SRS — (Cont'd)

RS-SRS-03



REFER TO THE FOLLOWING.

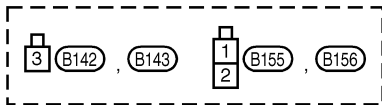
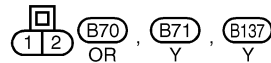
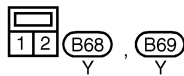
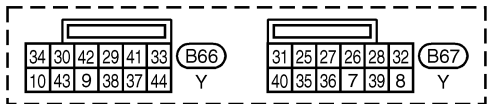
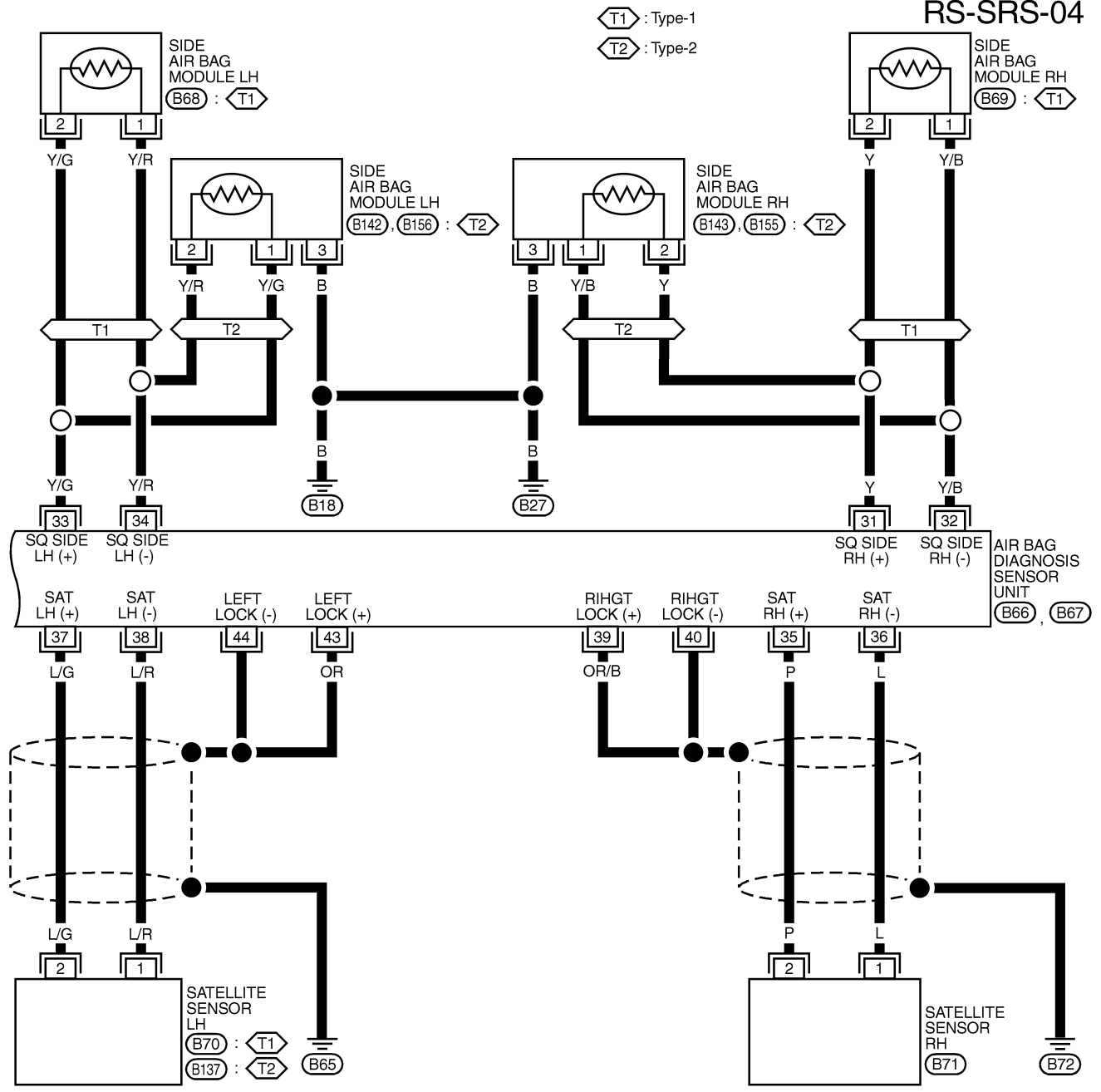
(M1) FUSE BLOCK-JUNCTION BOX (J/B)

YRS060

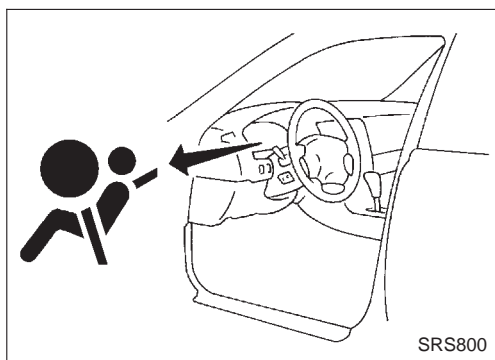
TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Wiring Diagram — SRS — (Cont'd)

RS-SRS-04



YRS061



SRS-Operation Check

DIAGNOSTIC PROCEDURE 1

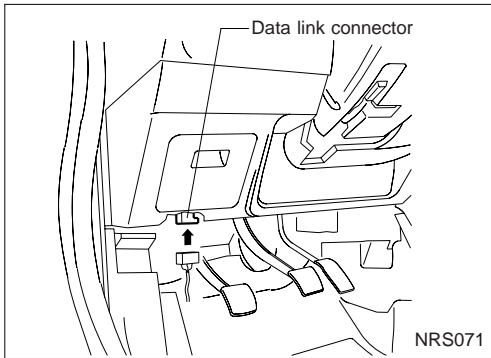
Checking Air Bag Operation by using “AIR BAG” Warning Lamp — User mode

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

“AIR BAG” warning lamp operation — User mode —	SRS condition	Reference item
<p style="text-align: right;">MRS095A</p>	No malfunction is detected. No further action is necessary.	—
<p style="text-align: right;">MRS096A</p>	The system is malfunctioning and needs to be repaired as indicated.	Go to DIAGNOSTIC PROCEDURE 2, or 6 (RS-38 or 48).
<p style="text-align: right;">MRS097A</p>	Air bag or/and seat belt pre-tensioner is deployed.	Go to COLLISION DIAGNOSIS (RS-57).
<p style="text-align: right;">MRS097A</p>	Air bag fuse, diagnosis sensor unit or harness is malfunctioning and needs to be repaired.	Go to DIAGNOSTIC PROCEDURE 9 (RS-56).
<p style="text-align: right;">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. ● Diagnosis sensor unit is malfunctioning. 	Go to DIAGNOSTIC PROCEDURE 10 (RS-56).

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-48.

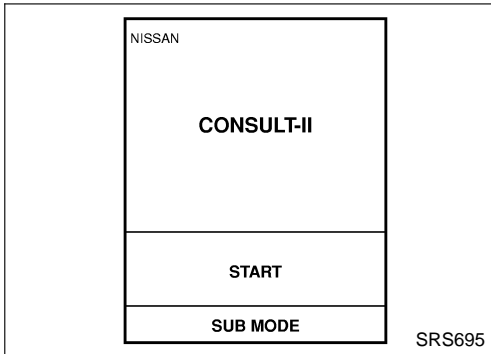


📱 Trouble Diagnoses with CONSULT-II

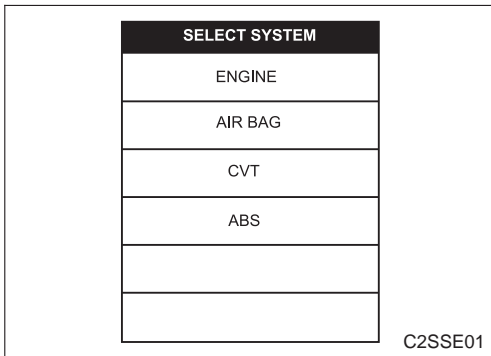
DIAGNOSTIC PROCEDURE 2

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

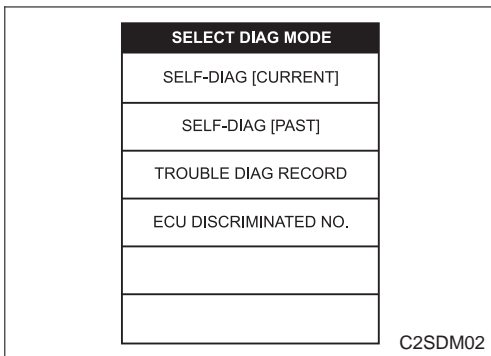
1. Turn ignition switch to the "OFF".
2. Connect "CONSULT-II" to Data link connector.



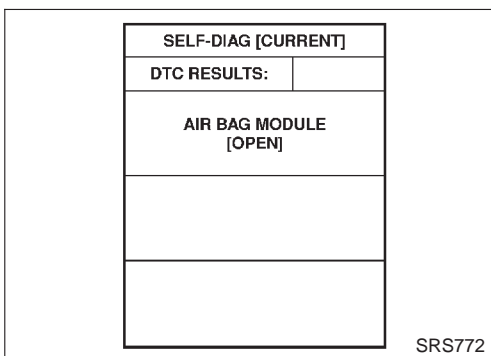
3. Turn ignition switch "ON".
4. Touch "START".



5. Touch "AIRBAG".



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



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

SELF-DIAG [CURRENT]
DTC RESULTS
NO DTC IS DETECTED. FUTHER TESTING MAY BE REQUIRED

C2SDC02

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

If no malfunction is detected on “SELF-DIAG [CURRENT]” but malfunction is indicated by the “AIR BAG”, warning lamp, go to DIAGNOSTIC PROCEDURE 4, page RS-43, to diagnose the following situations:

- Self-diagnostic result “SELF-DIAG [PAST]” (previously stored in the memory) might not be erased after repair.
- The SRS system malfunctions intermittently.

8. Touch “PRINT”.
9. Compare diagnostic codes to “CONSULT-II Diagnostic Code Chart”, page RS-39.
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 CONSULT-II and 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 RS-13.
13. After repairing the system, go to DIAGNOSTIC PROCEDURE 3, page RS-42 for final checking.

CONSULT-II Diagnostic Code Chart (“SELF-DIAGNOSIS”)

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 User mode	<ul style="list-style-type: none"> ● Low battery voltage (Less than 9V). ● 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.
	No malfunction is detected.	<ul style="list-style-type: none"> ● Go to DIAGNOSTIC PROCEDURE 3 (RS-42) after charging battery. ● Go to DIAGNOSTIC PROCEDURE 4 (RS-43).
AIRBAG MODULE [OPEN]	<ul style="list-style-type: none"> ● Driver’s air bag module circuit is open. (including the spiral cable) 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace driver’s air bag module. (Before disposing of it, it must be deployed.) 4. Replace the spiral cable. 5. Replace the diagnosis sensor unit. 6. Replace the related harness.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Trouble Diagnoses with CONSULT-II (Cont'd)

Diagnostic item	Explanation	Repair order Recheck SRS at each replacement.
AIRBAG MODULE [VB-SHORT]	<ul style="list-style-type: none"> ● Driver's air bag module circuit is shorted to a power supply circuit. (including the spiral cable) 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the spiral cable. 4. Replace driver's air bag module. (Before disposing of it, it must be deployed.) 5. Replace the diagnosis sensor unit. 6. Replace the related harness.
AIRBAG MODULE [GND-SHORT]	<ul style="list-style-type: none"> ● Driver's air bag module circuit is shorted to ground. (including the spiral cable) 	
AIRBAG MODULE [SHORT]	<ul style="list-style-type: none"> ● Driver's air bag module circuits are shorted to each other. 	
ASSIST A/B MODULE [VB/SHORT]	<ul style="list-style-type: none"> ● Passenger's air bag module circuit is shorted to some power supply circuit. 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace passenger's air bag module. (Before disposal of it, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
ASSIST A/B MODULE [OPEN]	<ul style="list-style-type: none"> ● Passenger's air bag module circuit is open. 	
ASSIST A/B MODULE [GND-SHORT]	<ul style="list-style-type: none"> ● Passenger's air bag module circuit is shorted to ground. 	
ASSIST A/B MODULE [SHORT]	<ul style="list-style-type: none"> ● Passenger's air bag module circuits are shorted to each other. 	
SIDE MODULE LH [OPEN]	<ul style="list-style-type: none"> ● Side air bag module (LH) circuit is open. 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the side air bag module (LH). (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
SIDE MODULE LH [VB-SHORT]	<ul style="list-style-type: none"> ● Side air bag module (LH) circuit is shorted to some power supply circuits. 	
SIDE MODULE LH [GND-SHORT]	<ul style="list-style-type: none"> ● Side air bag module (LH) circuit is shorted to ground. 	
SIDE MODULE LH [SHORT]	<ul style="list-style-type: none"> ● Side air bag module (LH) circuits are shorted to each other. 	
SIDE MODULE RH [OPEN]	<ul style="list-style-type: none"> ● Side air bag module (RH) circuit is open. 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the side air bag module (RH). (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
SIDE MODULE RH [VB-SHORT]	<ul style="list-style-type: none"> ● Side air bag module (RH) circuit is shorted to some power supply circuits. 	
SIDE MODULE RH [GND-SHORT]	<ul style="list-style-type: none"> ● Side air bag module (RH) circuit is shorted to ground. 	
SIDE MODULE RH [SHORT]	<ul style="list-style-type: none"> ● Side air bag module (RH) circuits are shorted to each other. 	
SATELLITE SENS LH [UNIT FAIL] SATELLITE SENS LH [COMM FAIL]	<ul style="list-style-type: none"> ● Satellite sensor (LH) 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the satellite sensor (LH). 4. Replace the diagnosis sensor unit. 5. Replace the related harness.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

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

Diagnostic item	Explanation	Repair order Recheck SRS at each replacement.
SATELLITE SENS RH [UNIT FAIL] SATELLITE SENS RH [COMM FAIL]	<ul style="list-style-type: none"> ● Satellite sensor (RH) 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the satellite sensor (RH). 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
PRE-TEN LH [OPEN/VB-SHORT]	<ul style="list-style-type: none"> ● The circuit for LH pre-tensioner is open or shorted to some power supply circuit. 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace LH seat belt. (Before disposing, it must be deactivated.) 4. Replace the diagnosis sensor unit 5. Replace the related harness.
PRE-TEN LH [GND-SHORT]	<ul style="list-style-type: none"> ● The circuit for LH pre-tensioner is shorted to ground. 	
PRE-TEN RH [OPEN/VB-SHORT]	<ul style="list-style-type: none"> ● The circuit for RH pre-tensioner is open or shorted to some power supply circuit. 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace RH seat belt. (Before disposing, it must be deactivated.) 4. Replace the diagnosis sensor unit 5. Replace the related harness.
PRE-TEN RH [GND-SHORT]	<ul style="list-style-type: none"> ● The circuit for RH pre-tensioner is shorted to ground. 	
CONTROL UNIT	<ul style="list-style-type: none"> ● Low battery voltage or diagnosis sensor unit is out of order. 	<ol style="list-style-type: none"> 1. Charge battery. 2. Visually check wiring harness connections. 3. Replace diagnosis sensor unit.
CONTROL UNIT	<ul style="list-style-type: none"> ● Low battery voltage (Less than 9V) 	<ul style="list-style-type: none"> ● Go to DIAGNOSTIC PROCEDURE 3 (RS-42) to after charging battery.
	<ul style="list-style-type: none"> ● Diagnosis sensor unit is malfunctioning. 	<ol style="list-style-type: none"> 1. Visually check wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace diagnosis sensor unit. 4. Replace the related harness.

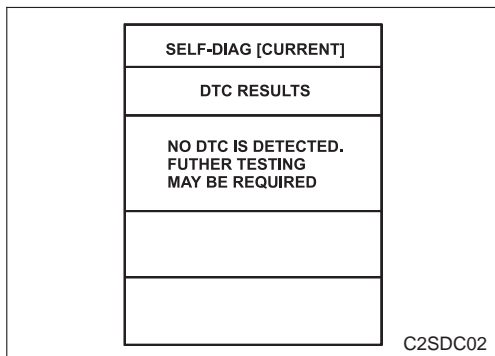
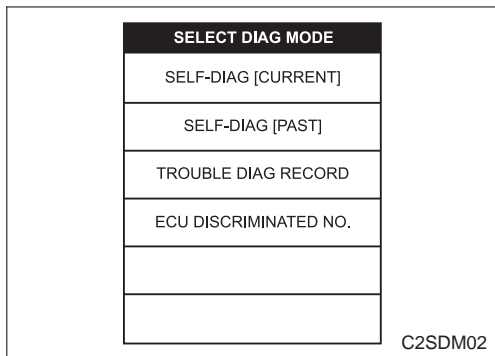
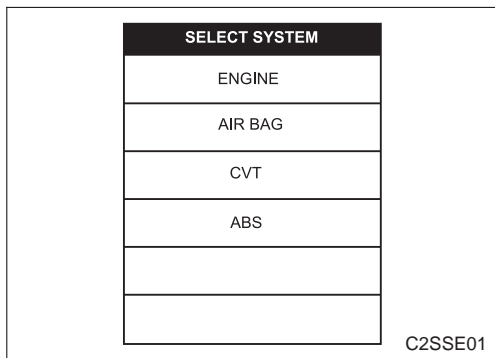
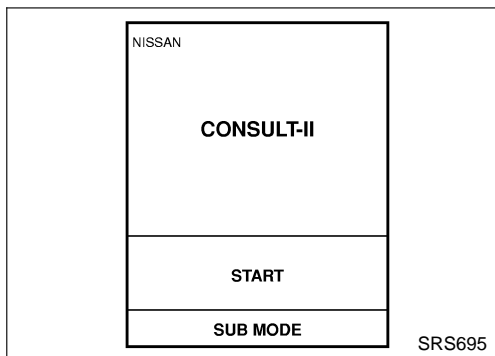
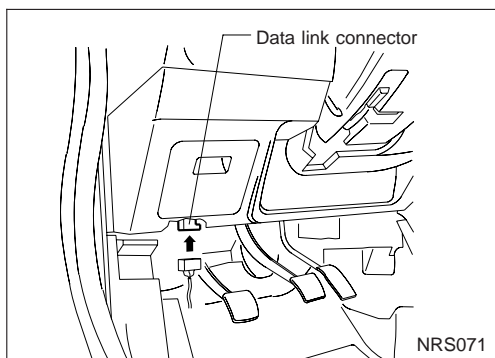
* Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using the air bag warning lamp or CONSULT-II each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated, further repair work is not required.

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

DIAGNOSTIC PROCEDURE 3

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

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



4. Touch "START".

5. Touch "AIRBAG".

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

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, page RS-38, and repair malfunctioning part completely.

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

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.

SELF-DIAG [CURRENT]
DTC RESULTS:
PRE-TEN FRONT LH [OPEN/VB-SHORT]
ERASE

C2SDC01

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

C2SDM02

SELF-DIAG [PAST]
DTC RESULTS
NO DTC IS DETECTED. FUTHER TESTING MAY BE REQUIRED

C2SDP02

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

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

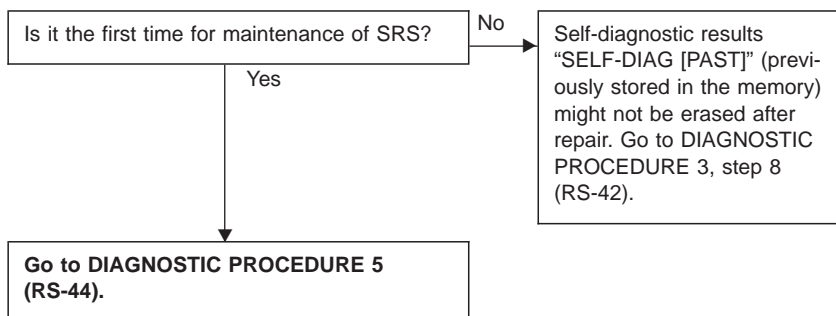
11. Touch "BACK" key of CONSULT-II until "SELECT SYSTEM" appears in order to return to User mode from Diagnosis mode.

12. Turn ignition switch "OFF" then turn off and disconnect CONSULT-II.

13. Go to "SRS Operation Check", page RS-37 to check SRS operation by using "AIR BAG" warning lamp with User mode.

DIAGNOSTIC PROCEDURE 4 (CONTINUED FROM DIAGNOSTIC PROCEDURE 2)

Inspecting SRS malfunctioning record



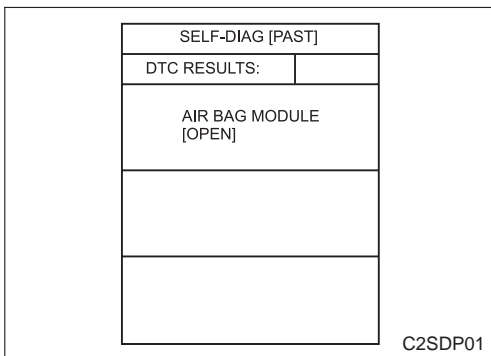
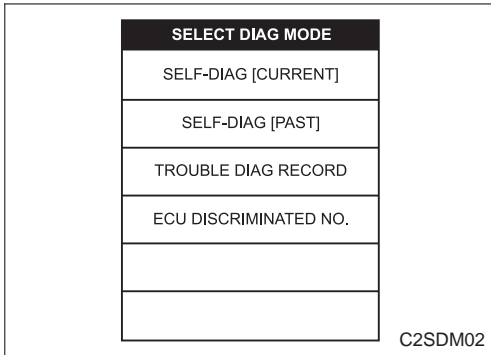
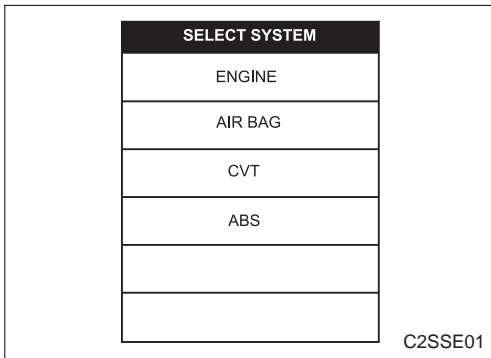
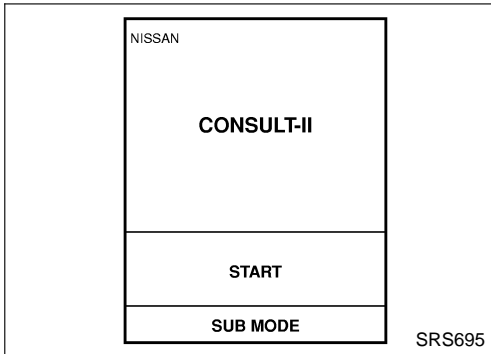
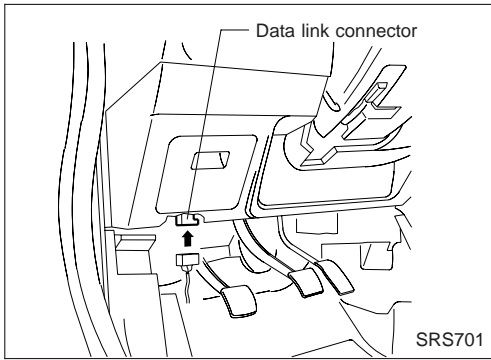
TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

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

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.



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

5. Touch "AIR BAG".

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

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

8. Trouble Diagnoses with CONSULT-II (Cont'd)

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

SELF-DIAG [PAST]
DTC RESULTS
NO DTC IS DETECTED. FUTHER TESTING MAY BE REQUIRED

C2SDP02

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

C2SDM02

TROUBLE DIAG RECORD
DTC RESULTS:
SIDE MODULE RH [OPEN]
AIR BAG MODULE [OPEN]
SIDE MODULE LH [OPEN]

C2TDR02

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 “PRINT”.
11. Compare diagnostic codes to “Intermittent Malfunction Diagnostic Code Chart”, page RS-46.
12. Touch “BACK” key of CONSULT-II until “SELECT SYSTEM” appears.
13. Turn ignition switch “OFF”, then turn off and disconnect CONSULT-II, and both battery cables.
14. Repair the system as outlined by the “Repair order” in “Intermittent Malfunction Diagnostic Code Chart”, that corresponds to the self-diagnostic result. For replacement procedure of component parts, refer to RS-13.
15. Go to DIAGNOSTIC PROCEDURE 3, page RS-42, for final checking.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

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

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

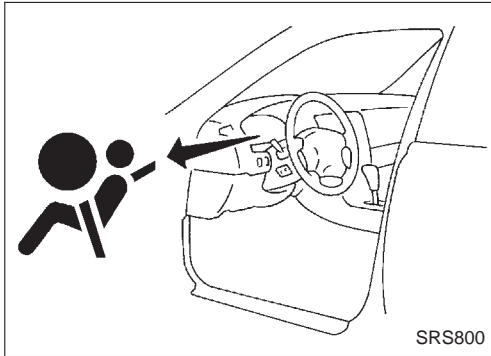
Diagnostic item	Explanation		Repair order
NO DTC IS DETECTED.	When malfunction is indicated by the "AIR BAG" warning lamp in User mode	<ul style="list-style-type: none"> ● Low battery voltage (Less than 9V). 	<ul style="list-style-type: none"> ● Go to DIAGNOSTIC PROCEDURE 3 (RS-42) after charging battery.
	No malfunction is detected.		<ul style="list-style-type: none"> ● Go to DIAGNOSTIC PROCEDURE 3 (RS-42).
AIRBAG MODULE [OPEN]	<ul style="list-style-type: none"> ● Driver's air bag module circuit is open. (including the spiral cable) 		<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. If the harness check result is OK, replace driver's air bag module (Before disposal of it, it must be deployed.), diagnosis sensor unit and spiral cable.
AIRBAG MODULE [VB-SHORT]	<ul style="list-style-type: none"> ● Driver's 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's air bag module circuit is shorted to ground. (including the spiral cable) 		
AIRBAG MODULE [SHORT]	<ul style="list-style-type: none"> ● Driver's air bag module circuits are shorted to each other. 		
ASSIST A/B MODULE [VB/SHORT]	<ul style="list-style-type: none"> ● Passenger's air bag module circuit is shorted to some power supply circuit. 		<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the air bag harness if it has visible damage. 3. If the harness check result is OK, replace front air bag module (Before disposal of it, it must be deployed.), and diagnosis sensor unit.
ASSIST A/B MODULE [OPEN]	<ul style="list-style-type: none"> ● Passenger's air bag module is open. 		
ASSIST A/B MODULE [GND-SHORT]	<ul style="list-style-type: none"> ● Passenger's air bag module circuit is shorted to ground. 		
ASSIST A/B MODULE [SHORT]	<ul style="list-style-type: none"> ● Passenger's air bag module circuits are shorted to each other. 		
SIDE MODULE LH [OPEN]	<ul style="list-style-type: none"> ● Side air bag module (LH) circuit is open. 		<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. If the harness check is OK, replace the diagnosis sensor unit and side air bag module (LH). (Before disposing the side air bag module (LH), it must be deployed.)
SIDE MODULE LH [VB-SHORT]	<ul style="list-style-type: none"> ● Side air bag module (LH) circuit is shorted to some power supply circuits. 		
SIDE MODULE LH [GND-SHORT]	<ul style="list-style-type: none"> ● Side air bag module (LH) circuit is shorted to ground. 		
SIDE MODULE LH [SHORT]	<ul style="list-style-type: none"> ● Side air bag module (LH) circuits are shorted to each other. 		
SIDE MODULE RH [OPEN]	<ul style="list-style-type: none"> ● Side air bag module (RH) circuit is open. 		<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. If the harness check is OK, replace the diagnosis sensor unit and side air bag module (RH). (Before disposing the side air bag module (RH), it must be deployed.)
SIDE MODULE RH [VB-SHORT]	<ul style="list-style-type: none"> ● Side air bag module (RH) circuit is shorted to some power supply circuits. 		
SIDE MODULE RH [GND-SHORT]	<ul style="list-style-type: none"> ● Side air bag module (RH) circuit is shorted to ground. 		
SIDE MODULE RH [SHORT]	<ul style="list-style-type: none"> ● Side air bag module (RH) circuits are shorted to each other. 		
SATELLITE SENS LH [UNIT FAIL] SATELLITE SENS LH [COMM FAIL]	<ul style="list-style-type: none"> ● Satellite sensor (LH) 		<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. If the harness check is OK, replace the diagnosis sensor unit and satellite sensor (LH).

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Trouble Diagnoses with CONSULT-II (Cont'd)

Diagnostic item	Explanation	Repair order
SATELLITE SENS RH [UNIT FAIL] SATELLITE SENS RH [COMM FAIL]	<ul style="list-style-type: none"> ● Satellite sensor (RH) 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. If the harness check is OK, replace the diagnosis sensor unit and satellite sensor (RH).
PRE-TEN LH [OPEN/VB-SHORT]	<ul style="list-style-type: none"> ● The circuit for LH seat belt pre-tensioner is open or shorted to some power supply circuit. 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. If the harness check is OK, replace the diagnosis sensor unit and LH seat belt. (Before disposing the LH seat belt pre-tensioner, if must be deployed.)
PRE-TEN LH [GND-SHORT]	<ul style="list-style-type: none"> ● The circuit for LH seat belt pre-tensioner is shorted to ground. 	
PRE-TEN RH [OPEN/VB-SHORT]	<ul style="list-style-type: none"> ● The circuit for RH seat belt pre-tensioner is open or shorted to some power supply circuit. 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. If the harness check is OK, replace the diagnosis sensor unit and RH seat belt. (Before disposing the RH seat belt pre-tensioner, if must be deployed.)
PRE-TEN RH [GND-SHORT]	<ul style="list-style-type: none"> ● The circuit for RH seat belt pre-tensioner is shorted to ground. 	
CONTROL UNIT	<ul style="list-style-type: none"> ● Diagnosis sensor unit is malfunctioning. 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. If the harness check is OK, replace the 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

Inspecting SRS malfunction 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. 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.
6. “AIR BAG” warning lamp operates in Diagnosis mode as follows:

NOTE:

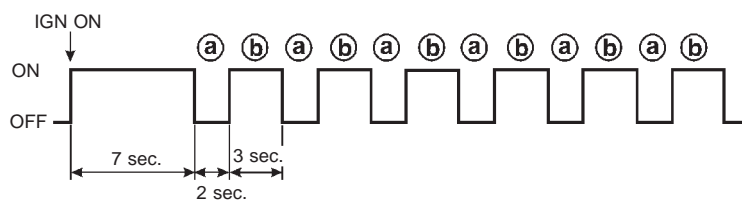
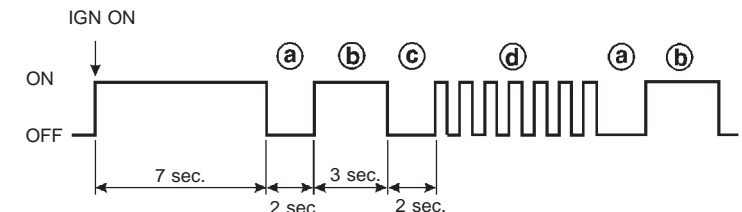
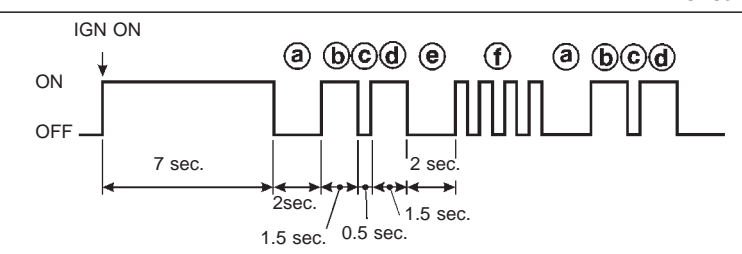
If SRS does not enter Diagnosis mode even though malfunction is detected in User mode, check the battery voltage.

If the battery voltage is less than 9V, charge the battery. Then go to DIAGNOSTIC PROCEDURE 7, page RS-53.

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

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

⊗ Trouble Diagnoses without CONSULT-II (Cont'd)

No.	“AIR BAG” warning lamp flash pattern — Diagnosis mode —	SRS condition
1	 <p style="text-align: right;">SRS333</p>	<p>Ⓐ through Ⓑ are repeated.</p> <ul style="list-style-type: none"> ● Diagnosis results (previously stored in the memory) might not be erased after repair. ● Intermittent malfunction has been detected in the past. <p>Go to DIAGNOSTIC PROCEDURE 8 (RS-55).</p>
2	 <p style="text-align: right;">SRS341</p>	<p>Ⓐ through Ⓓ are repeated.</p> <p>Ⓑ — Driver and passenger's air bag marker (For identifying driver's passenger's air bag and/or front seat belt pretensioner malfunctioning)</p> <p>Ⓓ — Indicates malfunctioning part. The number of flash varies with malfunctioning part (0.5 sec. ON and 0.5 sec. OFF is counted as one flash.)</p>
3	 <p style="text-align: right;">SRS342-A</p>	<p>Ⓐ through Ⓕ are repeated.</p> <p>Ⓑ, Ⓒ, Ⓓ — Side air bag marker (For identifying side air bag malfunctioning)</p> <p>Ⓕ — Indicates malfunctioning part. The number of flash varies with malfunctioning part (0.5 sec. ON and 0.5 sec. OFF is counted as one flash.)</p>

7. Malfunctioning part is indicated by the number of flashes (part Ⓓ or Ⓕ). Compare the number of flashes to “Air Bag Warning Lamp Flash Code Chart”, page RS-50, and locate malfunctioning part.
8. Turn ignition switch “OFF”, and disconnect both battery cables.
9. 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.
10. After repairing the system, go to DIAGNOSTIC PROCEDURE 7, page RS-53.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

⊗ Trouble Diagnoses without CONSULT-II (Cont'd)

Air Bag Warning Lamp Flash Code Chart (Diagnosis mode)

<ul style="list-style-type: none"> ● Diagnosis results (previously stored in the memory) might not be erased after repair. ● Intermittent malfunction has been detected in the past. 	<p style="text-align: center;">Flash pattern</p>	<p>Ⓐ through Ⓑ are repeated.</p>
<p>Repair order</p> <ul style="list-style-type: none"> ● Go to DIAGNOSTIC PROCEDURE 8 (RS-55). 		
<p>The driver's air bag module circuit is malfunctioning. (Ⓒ : 2 flashes)</p>	<p style="text-align: center;">Flash pattern</p>	<p>Ⓐ through Ⓓ are repeated. Ⓒ — Two flashes indicated malfunctioning driver's air bag module circuit.</p>
<p>Repair order ("Recheck SRS at each replacement.")</p> <ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the spiral cable. 4. Replace driver's air bag module. (Before disposal, it must be deployed.) 5. Replace the diagnosis sensor unit. 6. Replace the related harness. 		
<p>The diagnosis sensor unit is malfunctioning. (Ⓒ : 7 flashes)</p>	<p style="text-align: center;">Flash pattern</p>	<p>Ⓐ through Ⓓ are repeated. Ⓒ — Seven flashes indicate malfunctioning diagnosis sensor unit.</p>
<p>Repair order ("Recheck SRS at each replacement.")</p> <ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the diagnosis sensor unit. 4. Replace the related harness. 		

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

⊗ Trouble Diagnoses without CONSULT-II (Cont'd)

<p>The passenger's air bag module circuit is malfunctioning. (ⓐ : 8 flashes)</p>	<p style="text-align: center;">Flash pattern</p> <p style="text-align: right;">SRS336</p>	<p>ⓐ through ⓓ are repeated. ⓓ — Eight flashes indicated malfunctioning passenger's air bag module circuit.</p>
<p>Repair order ("Recheck SRS at each replacement.")</p> <ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace passenger's air bag module. (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness. 		
<p>The RH seat belt pre-tensioner circuit is malfunctioning. (ⓐ 1 flash)</p>	<p style="text-align: center;">Flash pattern</p> <p style="text-align: right;">SRS801</p>	<p>ⓐ through ⓓ are repeated. ⓓ — One flash indicates malfunctioning RH seat belt pre-tensioner circuit.</p>
<p>Repair order ("Recheck SRS at each replacement.")</p> <ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace RH seat belt pre-tensioner. (Before disposing, it must be deactivated.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness. 		
<p>The LH seat belt pre-tensioner circuit is malfunctioning. (ⓐ 3 flash)</p>	<p style="text-align: center;">Flash pattern</p> <p style="text-align: right;">SRS802</p>	<p>ⓐ through ⓓ are repeated. ⓓ — Three flash indicates malfunctioning LH seat belt pre-tensioner circuit.</p>
<p>Repair order ("Recheck SRS at each replacement.")</p> <ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace LH seat belt pre-tensioner. (Before disposing, it must be deactivated.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness. 		

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

⊗ Trouble Diagnoses without CONSULT-II (Cont'd)

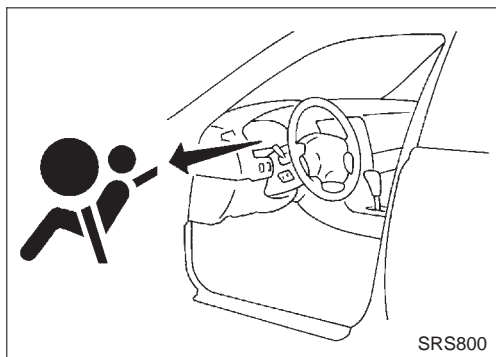
<p>The side air bag module (RH) circuit is malfunctioning. (f) : 1 flash)</p>	<p style="text-align: center;">Flash pattern</p> <p style="text-align: right;">SRS338</p>	<p>(a) through (f) are repeated. (f) — One flash indicates malfunctioning side air bag module (RH) circuit.</p>
<p>Repair order (“Recheck SRS at each replacement.”)</p> <ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace side air bag module (RH). (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness. 		
<p>The side air bag module (LH) circuit is malfunctioning. (f) : 2 flashes)</p>	<p style="text-align: center;">Flash pattern</p> <p style="text-align: right;">SRS337</p>	<p>(a) through (f) are repeated. (f) — Two flashes indicate malfunctioning side air bag module (LH) circuit.</p>
<p>Repair order (“Recheck SRS at each replacement.”)</p> <ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace side air bag module (LH). (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness. 		
<p>The satellite sensor (RH) is malfunctioning. (f) : 3 flashes)</p>	<p style="text-align: center;">Flash pattern</p> <p style="text-align: right;">SRS340</p>	<p>(a) through (f) are repeated. (f) — Three flashes indicated malfunctioning satellite sensor (RH) circuit.</p>
<p>Repair order (“Recheck SRS at each replacement.”)</p> <ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the satellite sensor (RH). 4. Replace the diagnosis sensor unit. 5. Replace the related harness. 		

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

⊗ Trouble Diagnoses without CONSULT-II (Cont'd)

<p>The satellite sensor (LH) is malfunctioning. (f : 4 flashes)</p>	<p>Flash pattern</p> <p style="text-align: right; font-size: small;">SRS339-A</p>	<p>Ⓐ through Ⓕ are repeated. Ⓖ — Four flashes indicate malfunctioning satellite sensor (LH) circuit.</p>
<p>Repair order (“Recheck SRS at each replacement.”)</p>		
<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the satellite sensor (LH). 4. Replace the diagnosis sensor unit. 5. Replace the related harness. 		

* 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 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

1. After repairing SRS connect both battery cables.
2. Turn ignition switch from “OFF” to “ON”.
3. “AIR BAG” warning lamp operates in Diagnosis mode as follows:

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

⊗ Trouble Diagnoses without CONSULT-II (Cont'd)

No.	“AIR BAG” warning lamp flash pattern — Diagnosis mode —	SRS condition
1	<p style="text-align: right;">SRS333</p>	<p>Ⓐ through Ⓑ are repeated.</p> <p>No malfunction is detected or repair is completed. No further action is necessary.</p>
2	<p style="text-align: right;">SRS341</p>	<p>Ⓐ through Ⓓ are repeated.</p> <p>Ⓑ — Driver, passenger's air bag, seat belt pre-tensioner marker (For identifying driver's, passenger's air bag and/or seat belt pre-tensioner malfunctioning)</p> <p>Ⓓ — 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.)</p>
3	<p style="text-align: right;">SRS342-A</p>	<p>Ⓐ through Ⓕ are repeated.</p> <p>Ⓑ, Ⓒ, Ⓓ — Side air bag marker (For identifying side air bag malfunctioning)</p> <p>Ⓕ — 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.)</p>

NOTE:

When diagnosis sensor unit is replaced with a 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.

4. 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 memory of the malfunction. Then go to step 6.

If “AIR BAG” warning lamp operates as shown in No. 2 or No. 3 in chart above, the malfunctioning part is not repaired completely, or another malfunctioning part is detected. Go to DIAGNOSTIC PROCEDURE 6, page RS-48, and repair malfunctioning part completely.

5. Turn ignition switch “ON”. “AIR BAG” warning lamp operates in User mode. Compare “AIR BAG” warning lamp operation to the chart on the next page.

NOTE:


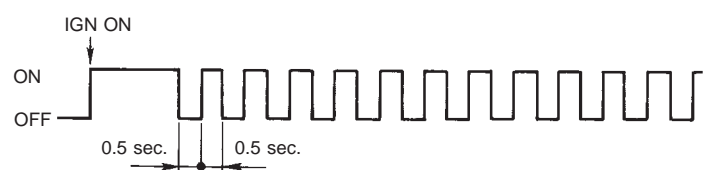


When a malfunction is detected, switch from Diagnosis mode to user mode by turning the ignition switch as follows:

- 1) Turn ignition switch “ON”.
- 2) After “AIR BAG” warning lamp lights for 7 seconds, turn ignition switch “OFF” within 1 second.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

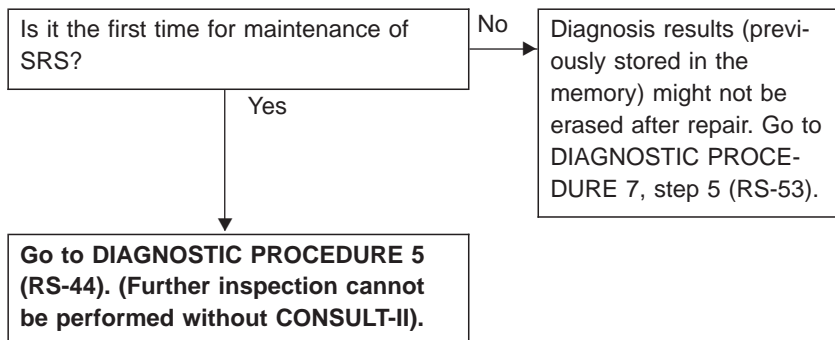
⊗ Trouble Diagnoses without CONSULT-II (Cont'd)

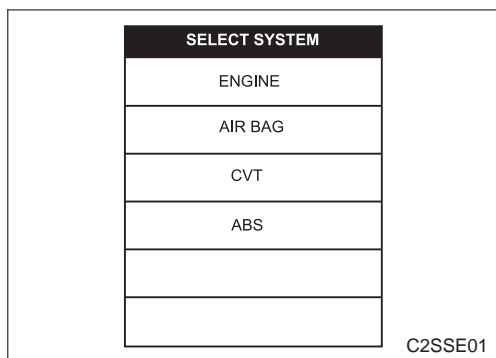
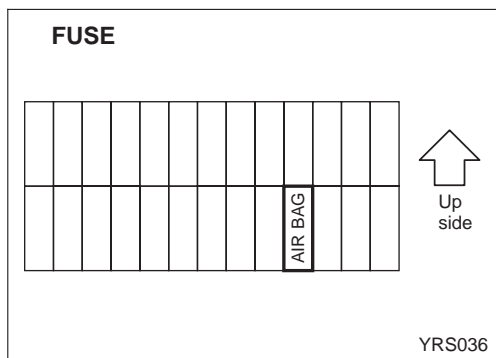
- 3) Wait more than 3 seconds.
 - 4) Repeat steps 1 to 3 three times.
 - 5) Turn ignition switch "ON".
- SRS is now in User mode.

"AIR BAG" warning lamp operation — User mode —	SRS condition	Reference item
 <p style="text-align: right; margin-right: 50px;">MRS095A</p>	<p>No malfunction is detected. No further action is necessary.</p>	—
 <p style="text-align: right; margin-right: 50px;">MRS096A</p>	<p>The system is malfunctioning and needs to be repaired as indicated.</p>	<p>Go to DIAGNOSTIC PROCEDURE 6 (RS-48).</p>
 <p style="text-align: right; margin-right: 50px;">MRS097A</p>	<p>Air bag and/or seat belt pre-tensioner is deployed.</p> <p>Air bag fuse, diagnosis sensor unit or harness is malfunctioning and needs to be repaired.</p>	<p>Go to COLLISION DIAGNOSIS (RS-57).</p> <p>Go to DIAGNOSTIC PROCEDURE 9 (RS-56).</p>
 <p style="text-align: right; margin-right: 50px;">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. ● Diagnosis sensor unit is malfunctioning. 	<p>Go to DIAGNOSTIC PROCEDURE 10 (RS-56).</p>

DIAGNOSTIC PROCEDURE 8 (CONTINUED FROM DIAGNOSTIC PROCEDURE 6)

Inspecting SRS malfunctioning record

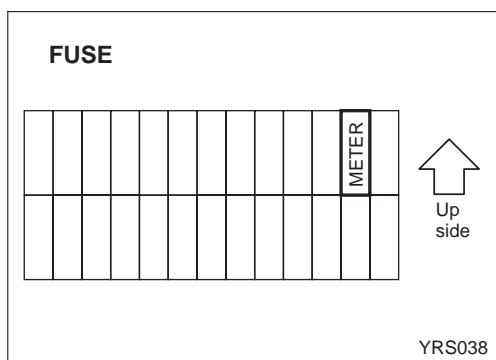
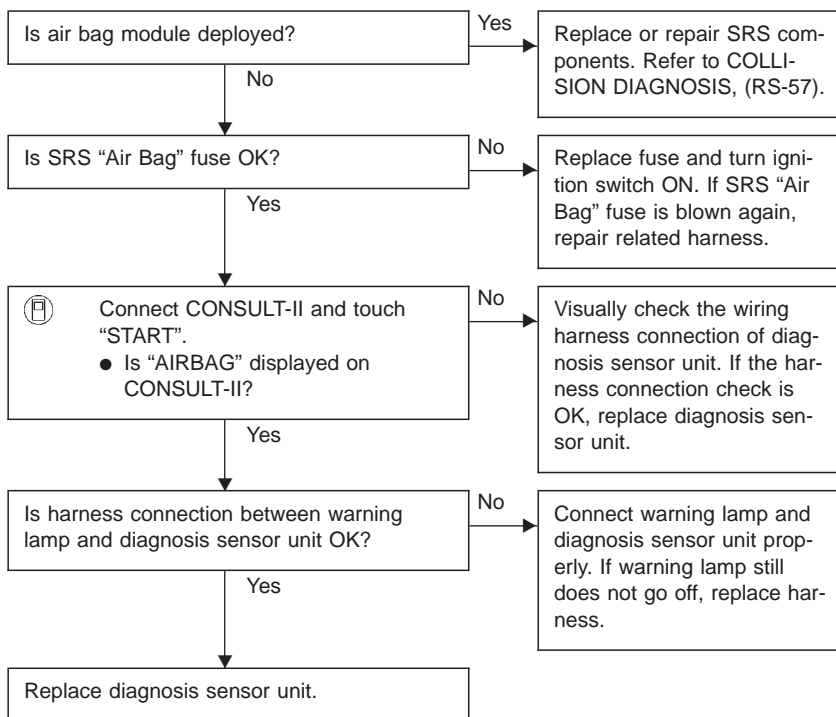




Trouble Diagnoses for Air Bag Warning Lamp

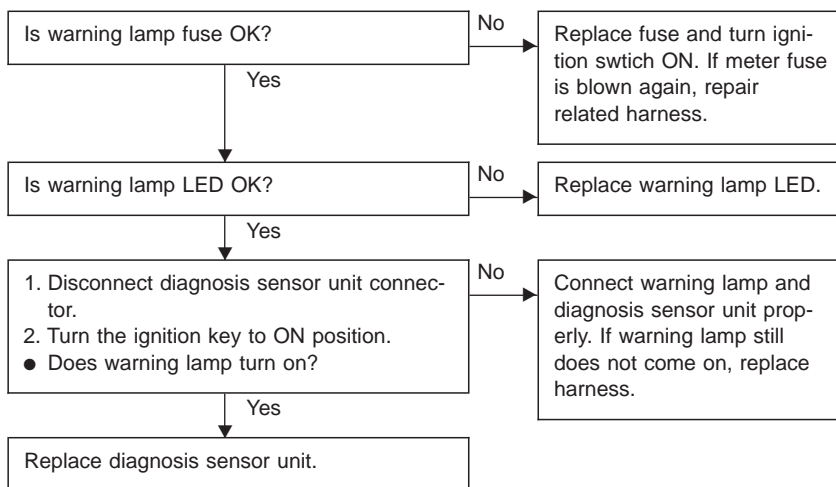
DIAGNOSTIC PROCEDURE 9

SYMPTOM: "AIR BAG" warning lamp does not turn off.



DIAGNOSTIC PROCEDURE 10

SYMPTOM: "AIR BAG" warning lamp does not turn on.



COLLISION DIAGNOSIS

FOR FRONTAL COLLISION

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

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

- ① Replace the diagnosis sensor unit.
- ② Remove the air bag modules (except the side airbag module) and seat belt pre-tensioner assemblies.
- ③ Check the SRS components using the table shown below:
 - Replace any SRS components showing visible signs of damage (dents, cracks, deformation).
- ④ Install new air bag modules (except the side airbag module) and seat belt pre-tensioner assemblies.
- ⑤ Conduct self-diagnosis using CONSULT-II, and “AIR BAG” warning lamp. Refer to “SRS Operation Check” for details (RS-37). Ensure entire SRS operates properly.

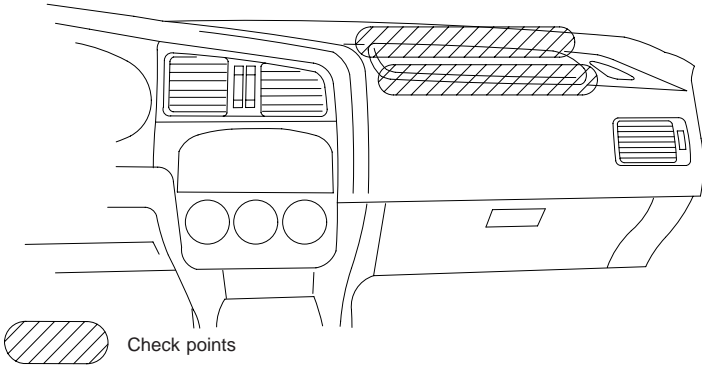
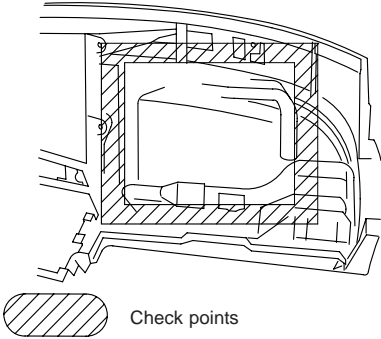
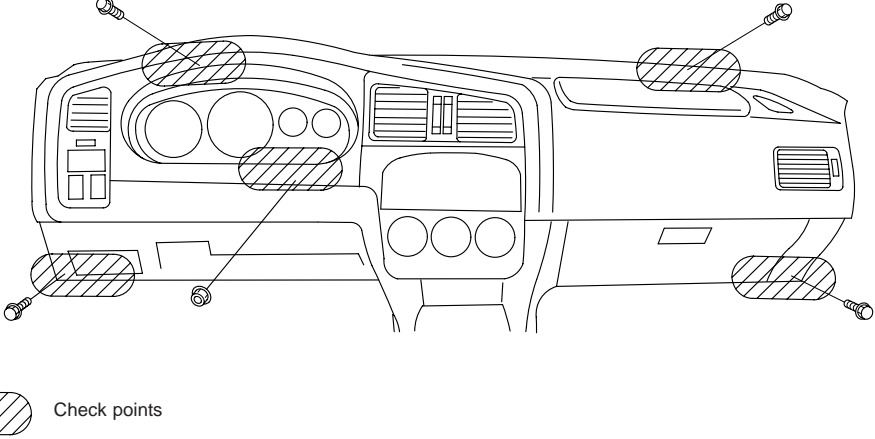
When SRS is not activated in a collision:

- ① Check the SRS components using the table shown below:
 - Replace any SRS components showing visible signs of damage (dents, cracks, deformation).
- ② Conduct self-diagnosis using CONSULT-II, and “AIR BAG” warning lamp. Refer to “SRS Operation Check” for details (RS-37). Ensure entire SRS operates properly.

SRS inspection

Part	SRS (except the side air bag) is activated	SRS is NOT activated
Air bag module (driver's and passenger's side)	REPLACE Install air bag module with new bolts coated with bonding agent.	<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. 2-1. Install driver's air bag module into the steering wheel to check fit and alignment with the wheel. 2-2. Install passenger's 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 airbag modules with new special bolt coated with bonding agent. Air bag must be deployed before discarding.
Seat belt pre-tensioner assembly	REPLACE Install seat belt pre-tensioner with new bolts coated with bonding agent.	<ol style="list-style-type: none"> 1. Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Check belts for damage and anchors for loose mounting. 3. Check retractor for smooth operation. 4. If no damage is found, reinstall with new bolts coated with bonding agent. 5. 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.
Diagnosis sensor unit	REPLACE Install diagnosis sensor unit with new bolts coated with bonding agent.	<ol style="list-style-type: none"> 1. Check case and bracket for dents, cracks or deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall with new special bolts and ground bolt coated with bonding agent. 4. If damaged—REPLACE. Install diagnosis sensor unit with new bolts and ground bolt coated with bonding agent.
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 driver's 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 or 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, or deformities. 3. If no damage is found, reinstall harness and connectors. 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 the next page.

COLLISION DIAGNOSIS

Part	SRS (except the side air bag) is activated	SRS is NOT activated
Instrument panel	<p>1. When passenger's air bag inflates, check the following points for bending, deformities or cracks.</p> <ul style="list-style-type: none"> ● Opening portion for passenger's air bag 	<p>1. When passenger's air bag inflates, check the following points for bending, deformities or cracks.</p> <ul style="list-style-type: none"> ● Opening portion for passenger's air bag  <p style="text-align: center;">Check points</p> <p style="text-align: right;">NRS072</p> <ul style="list-style-type: none"> ● Passenger's air bag module brackets Back face of instrument panel  <p style="text-align: center;">Check points</p> <p style="text-align: right;">NRS079</p> <ul style="list-style-type: none"> ● The portions securing the instrument panel  <p style="text-align: center;">Check points</p> <p style="text-align: right;">NRS073</p>
	<p>2. If no damage is found, reinstall the instrument panel.</p> <p>3. If damaged—REPLACE the instrument panel with bolts.</p>	

COLLISION DIAGNOSIS

FOR SIDE COLLISION

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

When the built-in type front side air bag is activated in the side collision:

- ① Replace the following components:
 - All parts of front seat back (including front seat back frame) with side air bag modules (on the side on which side air bag is activated)
 - Diagnosis sensor unit
 - Satellite sensor (on the side on which side air bag is activated)
- ② Check the SRS components and the related parts using the table shown below.
 - Replace the SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
- ③ Conduct self-diagnosis using CONSULT-II, or “AIR BAG” warning lamp. Refer to “SRS Operation Check” for details (RS-37). Ensure entire SRS operates properly.

When SRS is not activated in the side collision:

- ① Check the SRS components and the related parts using the table shown below.
 - Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
- ② Conduct self-diagnosis using CONSULT-II, or “AIR BAG” warning lamp. Refer to “SRS Operation Check” for details (RS-37). Ensure entire SRS operates properly.

In the case of the side collision

Part	Side air bag is activated	SRS is NOT activated
Built-in type front side air bags module (LH or RH)	REPLACE all parts of seat back with deployed side air bag module.	<ol style="list-style-type: none"> 1. Check for visible sign of damage (dents, tears, deformation) of the seat back on the collision side. 2. If damaged—REPLACE the damaged seat parts with new bolts and remove the side air bag module. 3. Check for visible signs of damage (tears etc.) of the side air bag module. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall the side air bag module with new torx nuts coated with bonding agent. 6. If damaged—REPLACE the side air bag module with new torx nuts coated with bonding agent. Air bag must be deployed before disposing of it.
Satellite sensor (LH or RH)	REPLACE the satellite sensor on the collision side with new nuts. (Repair the center pillar inner, etc. before installing new one if damaged.)	<ol style="list-style-type: none"> 1. Remove the satellite sensor on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding. 2. Check for visible signs of damage (dents, cracks, deformation) of the satellite sensor. 3. Install the satellite sensor to check fit. 4. If no damage is found, reinstall the satellite sensor with new nuts coated with bonding agent. 5. If damaged—REPLACE the satellite sensor with new nuts coated with bonding agent.
Diagnosis sensor	REPLACE the diagnosis sensor unit with the new bolts.	<ol style="list-style-type: none"> 1. Check case and bracket for dents, cracks or deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall the diagnosis sensor unit with new special bolts and ground bolt coated with bonding agent. 4. If damaged—REPLACE the diagnosis sensor unit with new special bolts and ground bolt coated with bonding agent.
Seat belt pre-tensioner assembly		<ol style="list-style-type: none"> 1. Check if the seat belt can be extended smoothly. <ul style="list-style-type: none"> – If the seat belt cannot be extended smoothly. – Check for deformities of the center pillar inner. – If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. 2. Remove the seat belt pre-tensioner assembly on the collision side. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 3. Check for visible signs of damage (dents, cracks, deformation) of the seat belt pre-tensioner assembly. 4. If no damage is found, reinstall the seat belt pre-tensioner assembly with new bolts coated with bonding agent. 5. If damaged—REPLACE the seat belt pre-tensioner assembly with new bolts coated with bonding agent. The seat belt pre-tensioner assembly must be deployed before disposing of it.

COLLISION DIAGNOSIS

Part	Side air bag is activated	SRS is NOT activated
Seat with built-in type front side air bag	REPLACE all parts of seat back (including seat back frame)	<ol style="list-style-type: none">1. Visually check the seat on the collision side.2. Remove the seat on the collision side and check the following for damage and deformities.<ul style="list-style-type: none">● Harness, connectors and terminals● Frame and recliner (for front seat), and also adjuster and slides (for front seat)3. If no damage is found, reinstall the seat.4. If damaged—REPLACE the damaged seat parts with new bolts.
Center pillar inner	<ol style="list-style-type: none">1. Check the center pillar inner on the collision side for damage (dents, cracks, deformation).2. If damaged—REPAIR the center pillar inner.	
Trim	<ol style="list-style-type: none">1. Check for visible signs of damage (dents, rucks, deformation) of the interior trim on the collision side.2. If damaged—REPLACE the damaged trim parts.	