

RESTRAINT SYSTEM

SECTION **RS**

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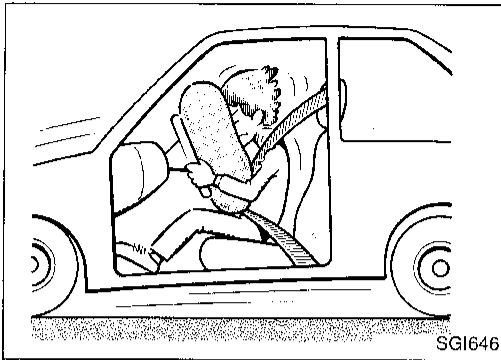
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When you read wiring diagrams:

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

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

PRECAUTIONS



Supplemental Restraint System (SRS) "AIR BAG"

The Supplemental Restraint System "Air Bag", used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger in a frontal collision. The Supplemental Restraint System consists of air bag modules (located in the center of the steering wheel and in the instrument panel on the passenger side), a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance 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. SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or for the complete harness, for easy identification.

SEAT BELTS

CAUTION:

- 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 seat belt assembly.
- If webbing is cut, frayed, or damaged, replace seat belt assembly.
- When replacing seat belt assembly, use a genuine NISSAN seat belt assembly.
- After any collision, inspect all seat belt assemblies, including retractors and other attached hardware.

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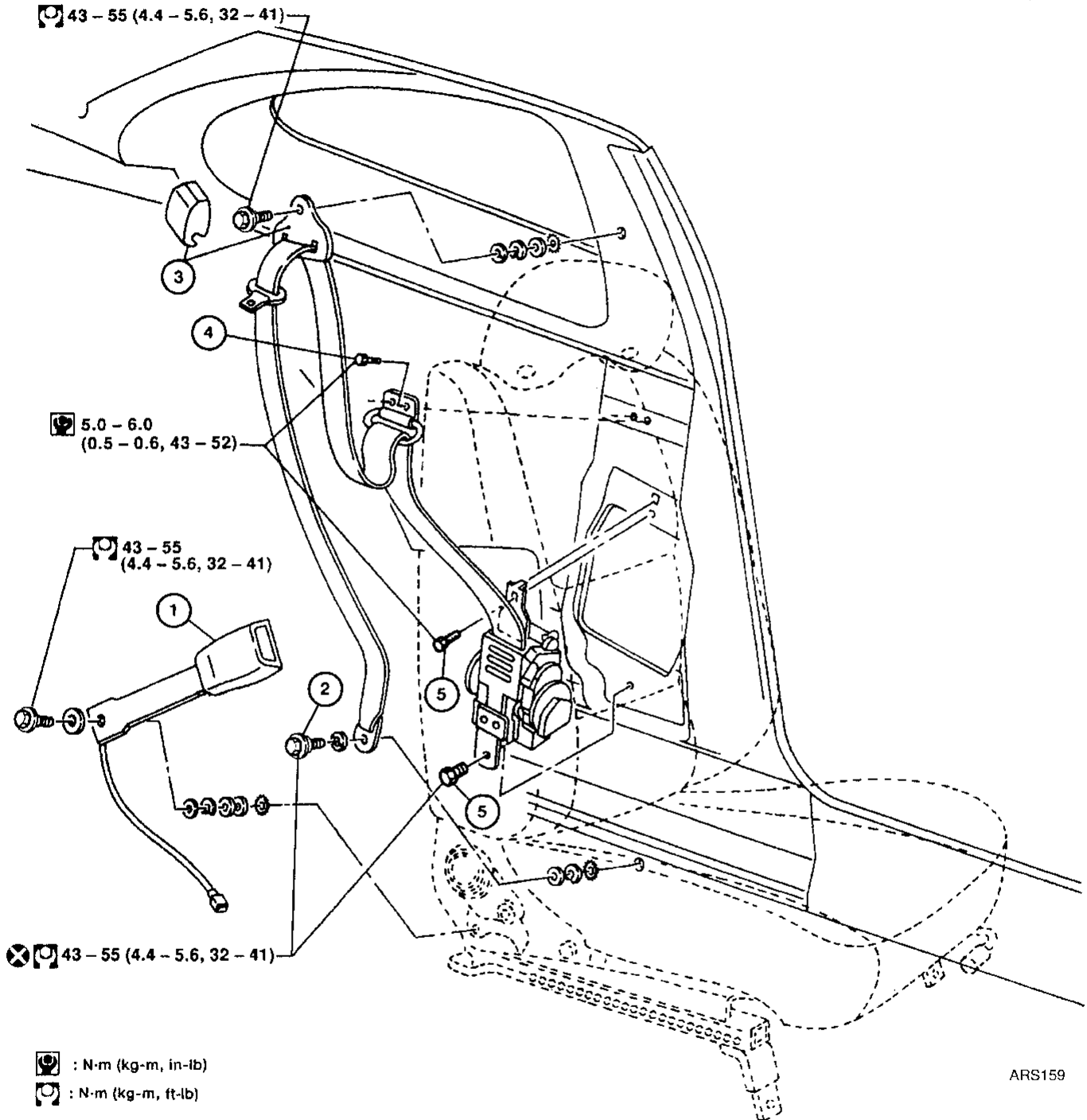
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SEAT BELTS

Front Seat Belt

2-DOOR COUPE

SEC. 868



ARS159

SEAT BELTS

Front Seat Belt (Cont'd)

Removal

Remove front seat. Refer to BT section ("Front Seat", "SEAT").

- ① Remove buckle.
- ② Remove floor anchor bolt.
Remove rear side finisher.
- ③ Remove pillar anchor cover and anchor bolt.
- ④ Remove guide plate bolts.
- ⑤ Remove retractor bolts.
Remove retractor.

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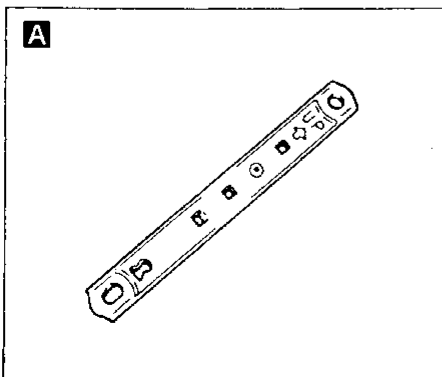
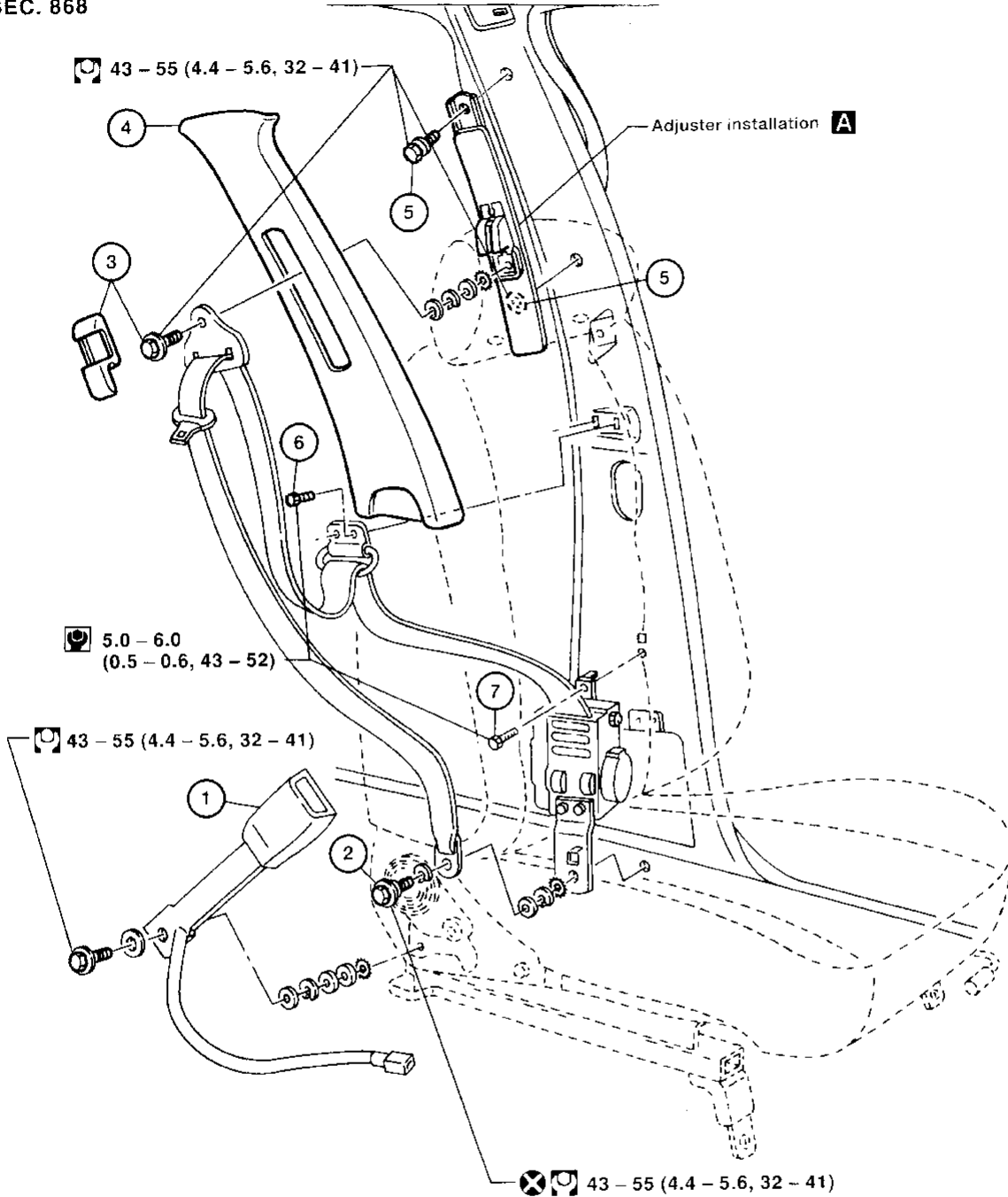
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SEAT BELTS

Front Seat Belt (Cont'd)

4-DOOR SEDAN

SEC. 868



: N-m (kg-m, in-lb)
 : N-m (kg-m, ft-lb)

SEAT BELTS

Front Seat Belt (Cont'd)

Removal

Remove front seat. Refer to BT section ("Front Seat", "SEAT").

① Remove buckle.

Remove front and rear kick plates.

② Remove floor anchor bolt.

Remove center pillar lower garnish.

③ Remove adjuster cover and pillar anchor bolt.

④ Remove center pillar upper garnish.

⑤ Remove two adjuster bolts and adjuster assembly. **A**

⑥ Remove two guide plate bolts.

⑦ Remove retractor bolt.

Remove retractor.

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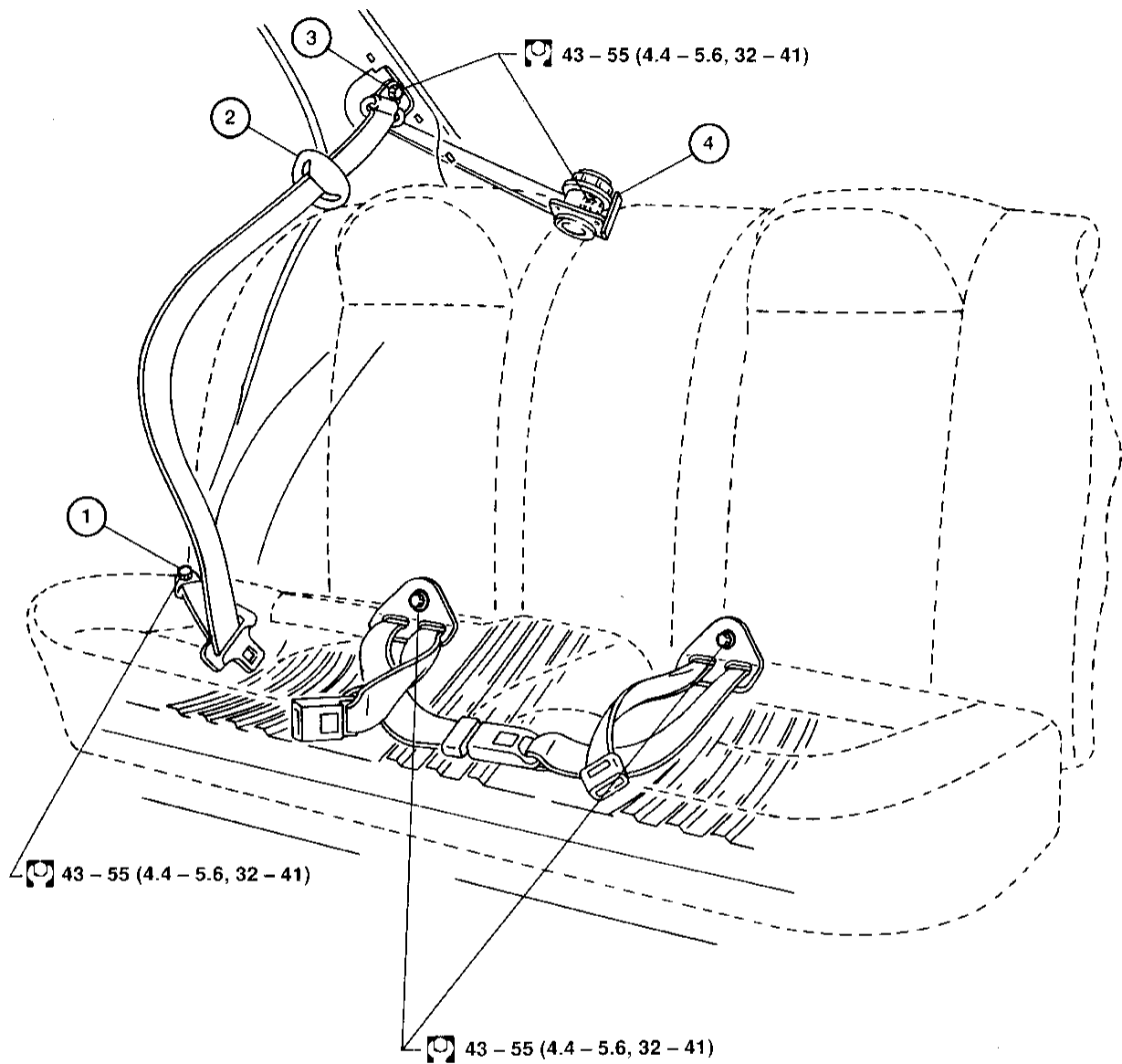
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SEAT BELTS

Rear Seat Belt

SEC. 869



 : N·m (kg·m, ft·lb)

ARS093

SEAT BELTS

Rear Seat Belt (Cont'd)

REMOVAL

2-door coupe

Remove rear seat cushion. Refer to BT section ("Rear Seat", "SEAT").

- ① Remove floor anchor bolt.
Remove rear side finisher.
Remove front seat belt pillar anchor cover and anchor bolt.
- ② Remove rear seat belt guide cover.
Remove rear pillar finisher.
- ③ Remove pillar anchor bolt.
Remove trunk side finisher.
- ④ Remove retractor bolt.
- ⑤ Remove retractor.

4-door sedan

Remove rear seat cushion. Refer to BT section ("Rear Seat", "SEAT").

- ① Remove floor anchor bolt.
- ② Remove seat belt guide cover.
Remove rear pillar garnish.
- ③ Remove pillar anchor bolt.
Remove trunk side finisher.
- ④ Remove retractor bolt.
- ⑤ Remove retractor.

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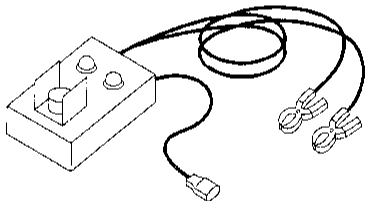
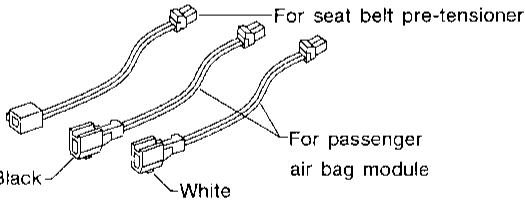
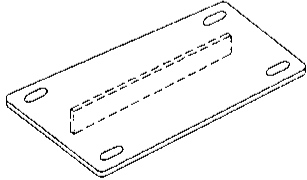
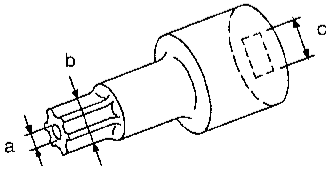
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Precautions for SRS "Air Bag" Service

- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or for the complete harness, for easy identification.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
For approximately 3 minutes after the cables are removed, it is still possible for the air bag to deploy. Therefore, do not work on any air bag system connectors or wires until at least 3 minutes have passed.
- Diagnosis sensor unit must always be installed with arrow mark "↗" 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 modules carefully. Always place them with the pad side facing upward.
- Do not use old bolts after removing any SRS parts; replace with new bolts. Conduct self-diagnosis to check entire SRS for proper function.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.

Special Service Tools

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

Tool number (Kent-Moore No.) Tool name	Description	
KV991072S0 (J38381-KIT) Air bag deployment kit KV99106400 (J38381) Deployment tool	 NT357	Disposing of air bag module
KV991065S0 (J38381-30) Deployment tool adapters	 NT353	
KV99105300 (J41246) Air bag module bracket	 NT354	Anchor the air bag module
HT61961000 and HT62152000 combined (J38219) *Special torx bit	 NT361	Use for special bolts [TAMPER RESISTANT TORX (Size T50)] a: 3.5 (0.138) dia. b: 8.5 - 8.6 (0.335 - 0.339) dia. c: approx. 10 (0.39) sq.

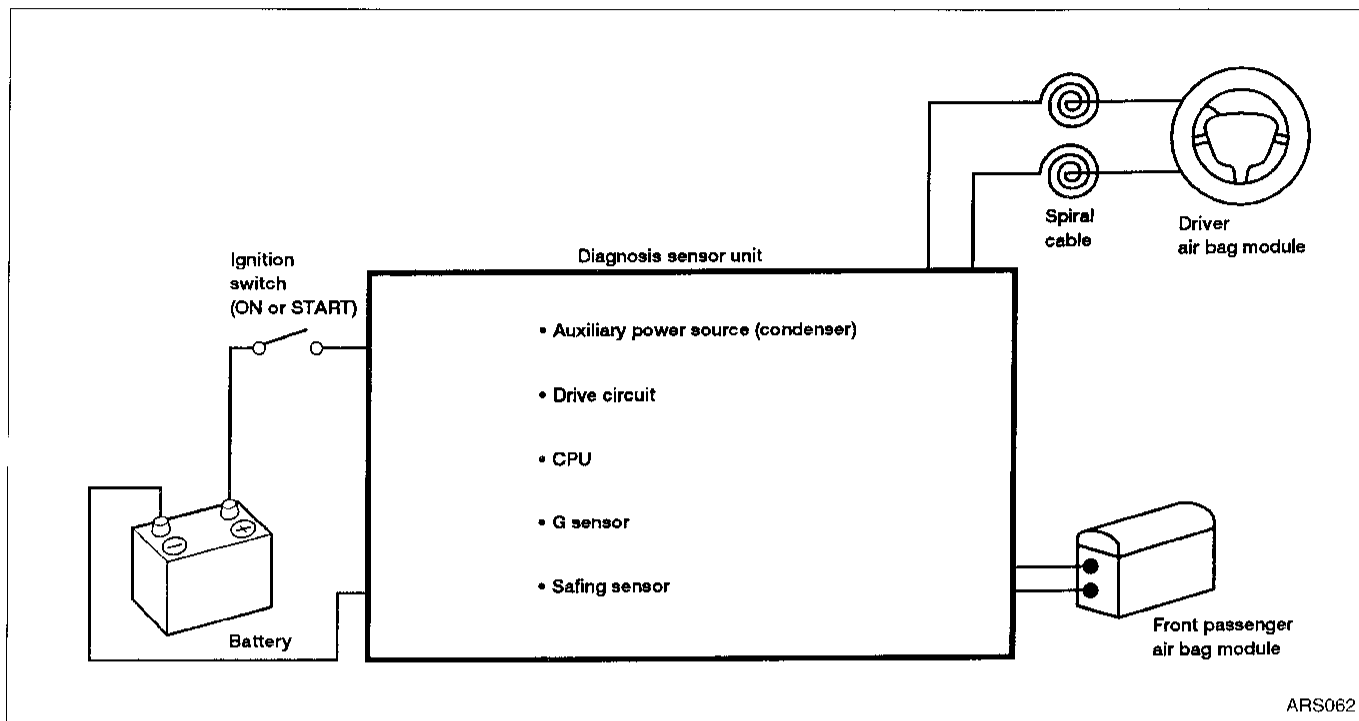
Unit: mm (in)

*: Special tool or commercial equivalent

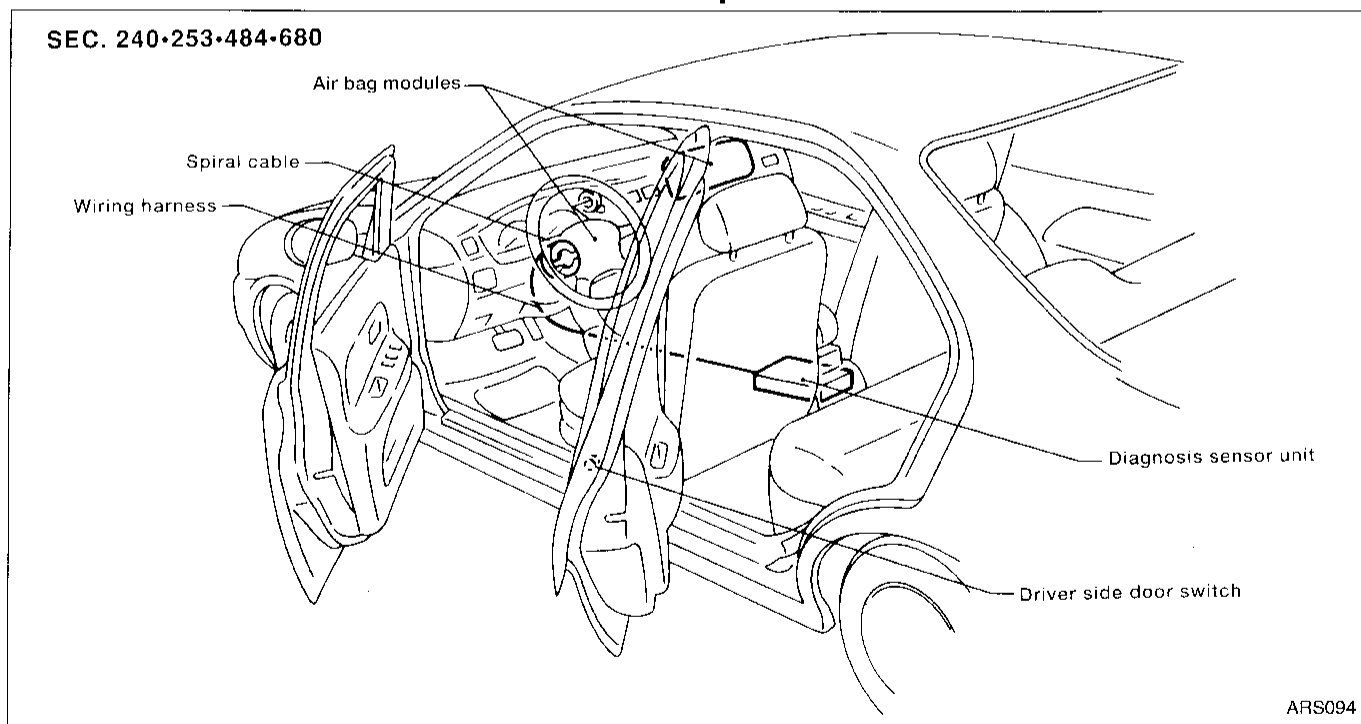
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Description

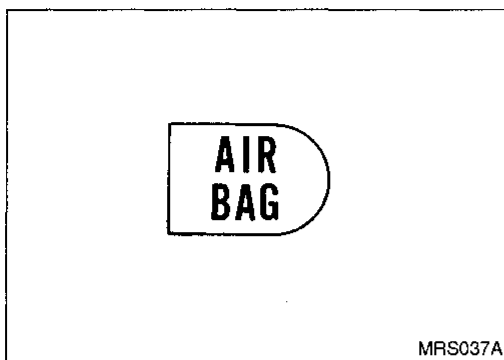
The air bags deploy if the diagnosis sensor unit activates while the ignition switch is in the ON or START position.



SRS Component Parts Location



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Maintenance Items

1. Check "AIR BAG" warning lamp operation.
After turning the ignition key ON, the "AIR BAG" warning lamp illuminates. The "AIR BAG" warning lamp will turn off after about 7 seconds if no malfunction is detected.
If any of the following "AIR BAG" warning lamp conditions occur, immediately check the air bag system. Refer to RS-27.
 - The warning lamp does not illuminate when the ignition switch is turned ON.
 - The warning lamp does not turn off about 7 seconds after the ignition switch is turned ON.
 - The warning lamp turns on or 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 and deformities.
 - Check connectors for damage, and terminals for deformities.
 - (2) Air bag modules and steering wheel
 - Remove air bag module from steering wheel or instrument panel. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.
 - Install driver air bag module in the steering wheel and check fit and alignment.
 - Check steering wheel for excessive free play.
 - Install front passenger air bag module in the instrument panel and check fit and alignment.
 - (3) Spiral cable
 - Check spiral cable and combination switch for damage.
 - Check connectors and protective tape for damage.
 - Check steering wheel for noise, binding and heavy operation.
 - (4) Main harness and air bag harness
 - Check connectors for poor connections, damage, and terminals for deformities.
 - Check harnesses for binding, chafing and cut.

CAUTION:

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

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Diagnosis Sensor Unit

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 a bonding agent while the other bolt is for ground. Do not use old bolts after removal; replace with new coated bolts.
- Check diagnosis sensor unit for proper installation.
- Check diagnosis sensor unit to ensure that there are no deformities, dents, cracks or rust. If there are any visible signs of damage, replace with a new one.
- Check diagnosis sensor unit brackets to ensure that they are free of deformities or rust.
- Replace diagnosis sensor unit if it has been dropped or sustained an impact.

REMOVAL AND INSTALLATION

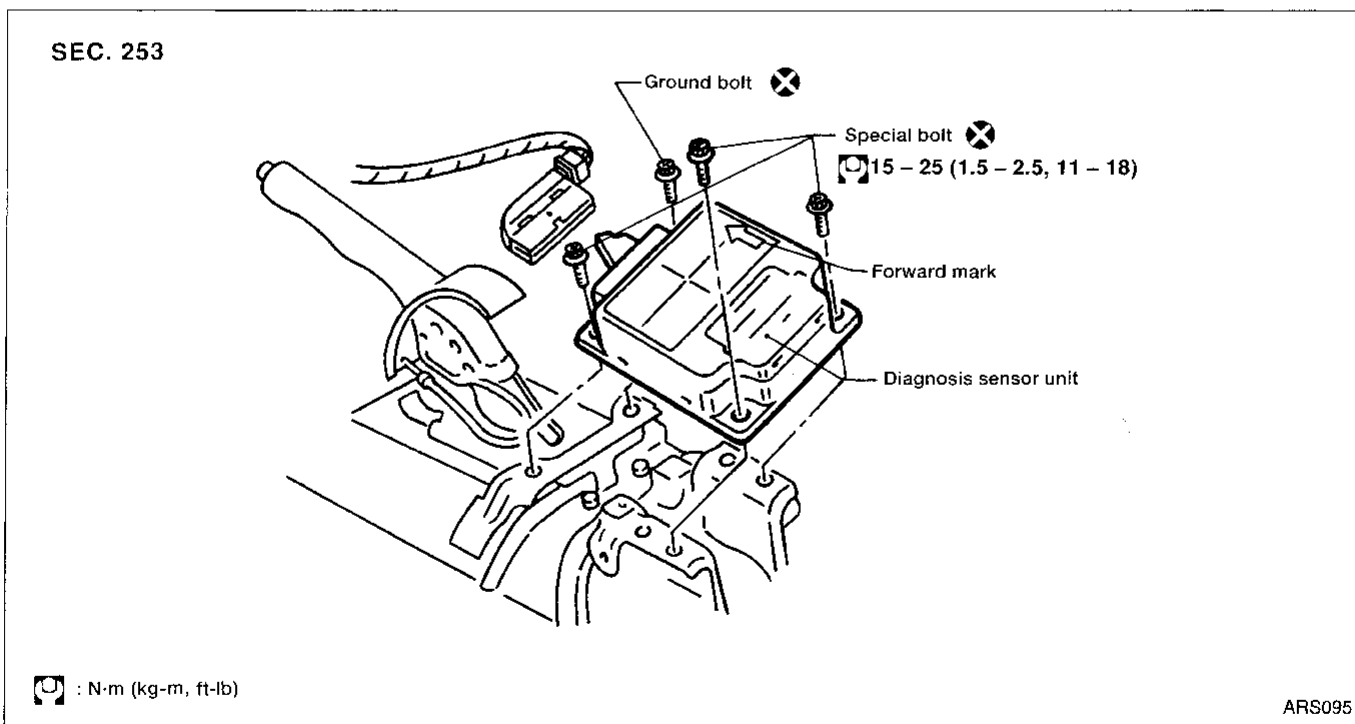
1. Disconnect driver and front passenger air bag module connectors.
2. Remove rear console. Refer to BT section, ("INSTRUMENT PANEL").
3. Disconnect diagnosis sensor unit connector.
4. Remove bolts from diagnosis sensor unit. Use TAMPER RESISTANT TORX (Size T50) to remove special bolts.
5. Remove the diagnosis sensor unit.

NOTE:

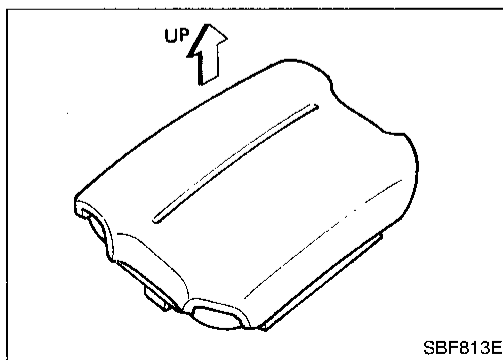
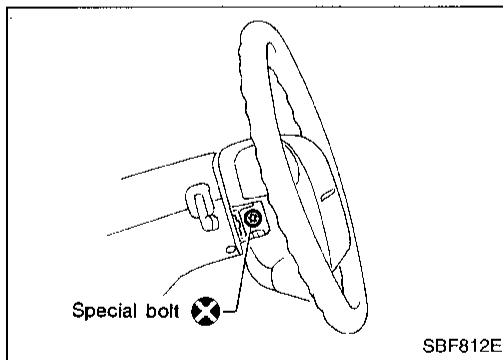
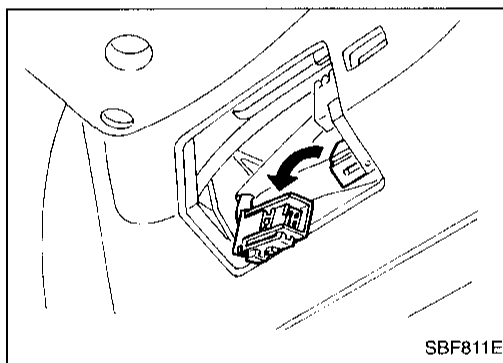
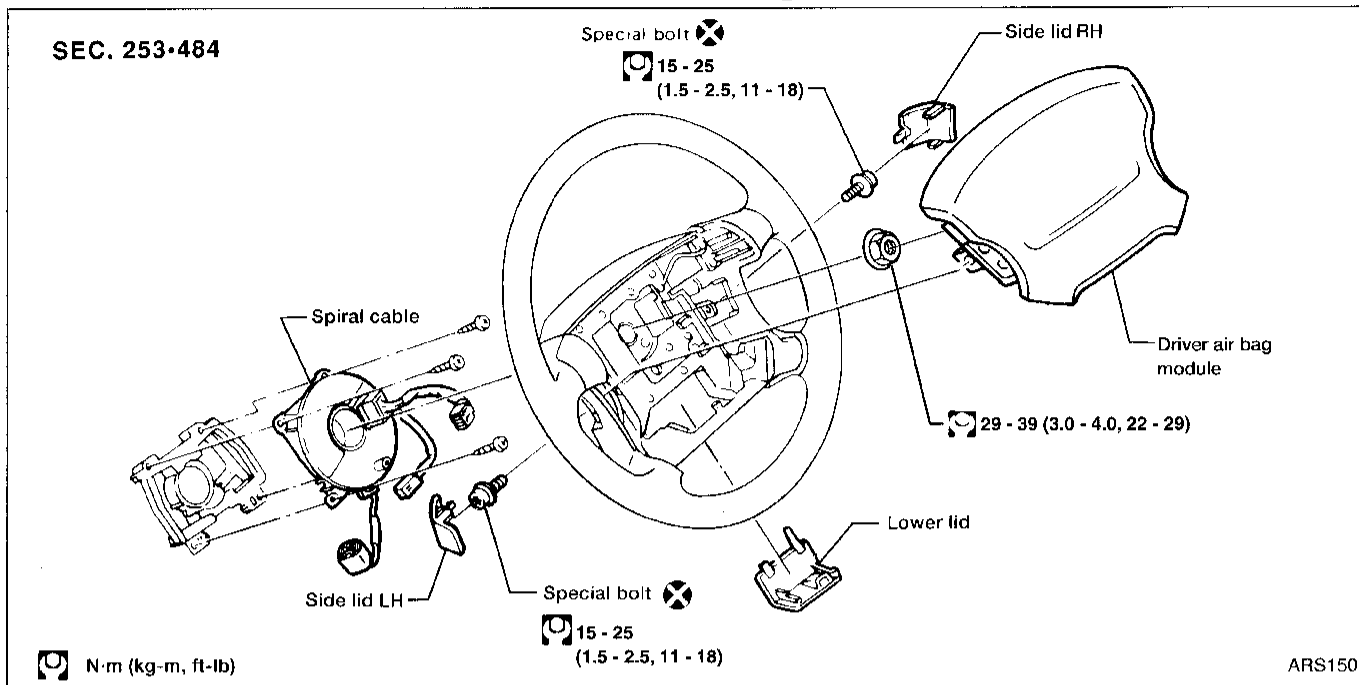
- To install, reverse the removal procedure.
- After replacement, perform self-diagnosis for SRS. Refer to "Self-diagnosis", "TROUBLE DIAGNOSIS — Supplemental Restraint System (SRS)", RS-27.

CAUTION:

Diagnosis sensor unit must always be installed with arrow marks "↖" pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities and rust before installation and replace as required.



Driver Air Bag Module and Spiral Cable



REMOVAL

CAUTION:

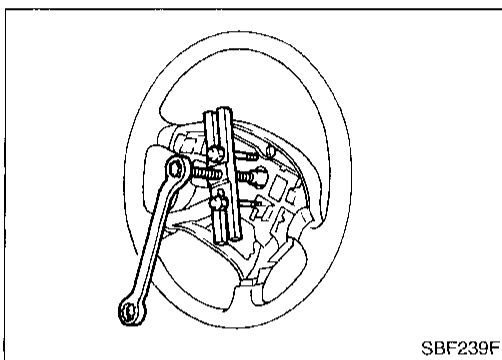
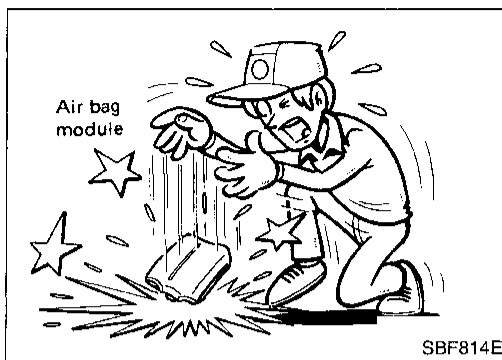
- Before servicing SRS, turn the ignition switch OFF, disconnect both battery cables and wait for at least 3 minutes.
 - Always work from the side of air bag module.
1. Remove lower lid from steering wheel, and disconnect driver air bag module connector.
 2. Remove left and right side lids. Using the TAMPER RESISTANT TORX (Size T50), remove left and right special bolts. Driver air bag module can then be removed.

CAUTION:

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

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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



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

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

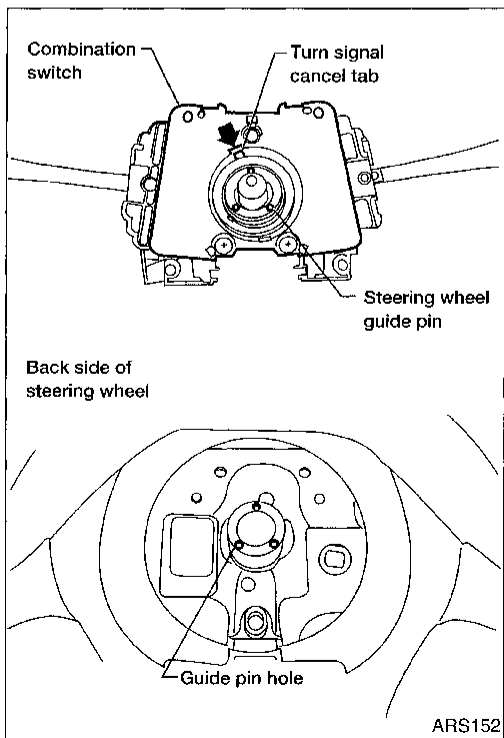
CAUTION:

Do not tap or bump the steering wheel.

6. Remove steering column covers.
7. Disconnect spiral cable connector.
8. Remove four spiral cable retaining screws. The spiral cable can then be removed.

CAUTION:

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

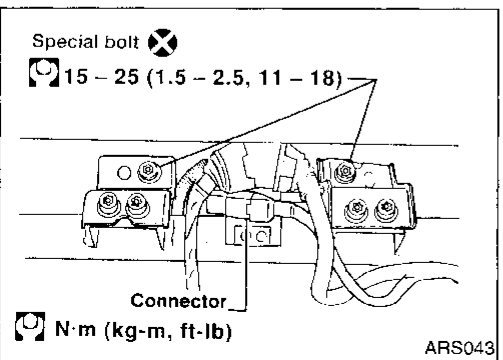
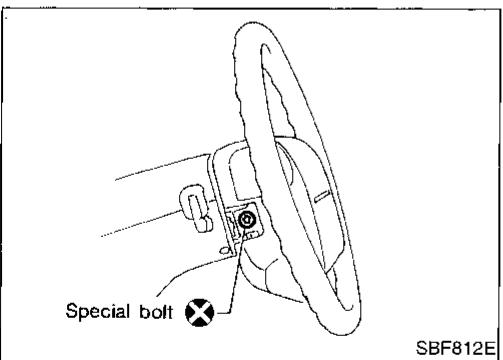
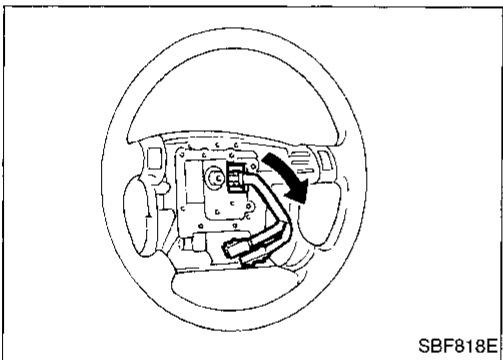
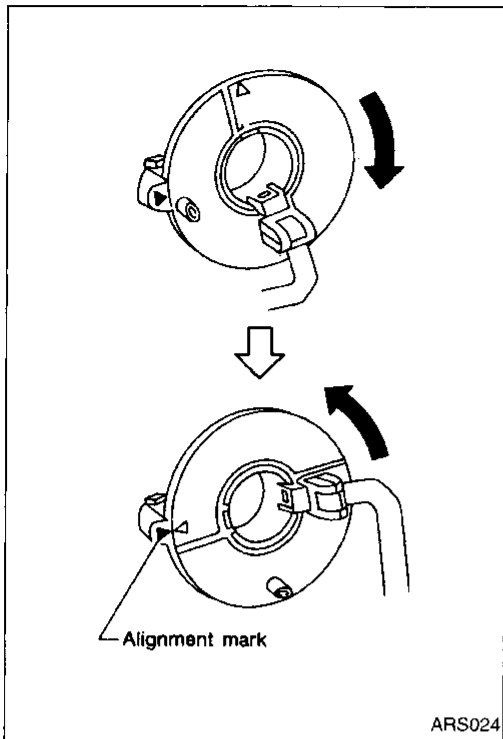


INSTALLATION

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

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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



3. Make sure that the spiral cable is in the neutral position. The neutral position is detected by turning left about 2.5 - 3.5 revolutions from the right end position. Align the two marks (X).

CAUTION:

- Always confirm the number indicated on the caution label attached to the spiral cable before starting work. The spiral cable may snap during steering operation if the cable is installed improperly. 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 about 2.5 - 3.5 turns from the neutral position to both the left and right.)

4. Install spiral cable, connect spiral cable connector and tighten screws. Install steering column cover.

5. Install steering wheel, setting spiral cable pin guide, and pull spiral cable through.
6. Connect horn connector and engage horn connector with pawls in steering wheel. Move driver air bag module connector away from steering wheel lower lid opening.
7. Tighten nut.

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

8. Position driver air bag module and tighten with new special bolts.
9. Connect driver air bag module connector.
10. Install ASCD switch and tighten screws.
11. Install all lids.
12. Connect both battery cables.
13. Conduct Self-diagnosis to ensure entire SRS operates properly. (Use CONSULT or warning lamp check.)
14. Turn steering wheel to the left end and then to the right end fully to make sure that spiral cable is set in the neutral position. If "AIR BAG" warning lamp blinks or stays on (at the User mode), it shows the spiral cable may be snapped due to its improper position. Perform self-diagnosis again (Use CONSULT or warning lamp check). If a malfunction is detected, replace the spiral cable with a new one.

Front Passenger Air Bag Module

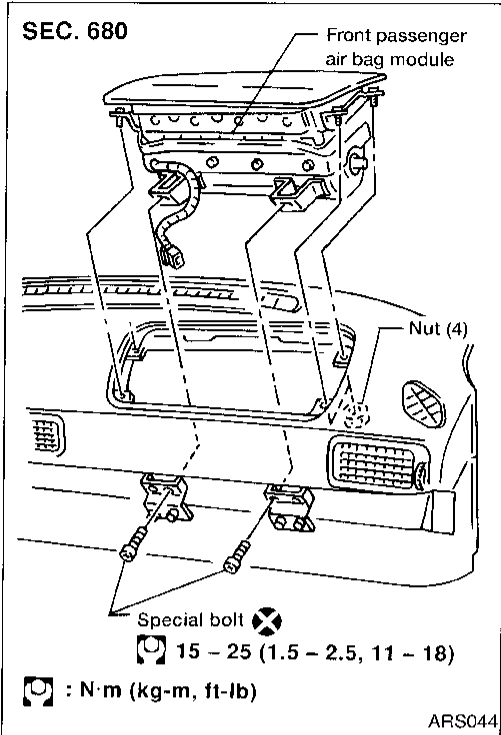
REMOVAL

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 an air bag module.
1. Remove glove box lid and glove box.
 2. Disconnect front passenger air bag module connector.
 3. Using the TAMPER RESISTANT TORX (Size T50), remove two special bolts.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

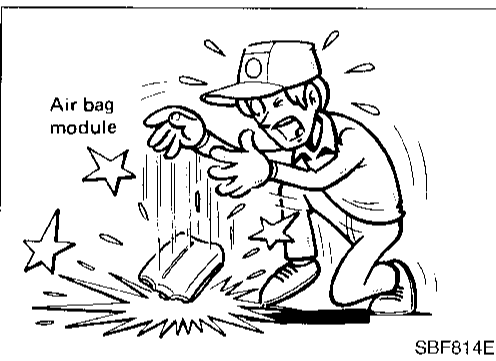
Front Passenger Air Bag Module (Cont'd)



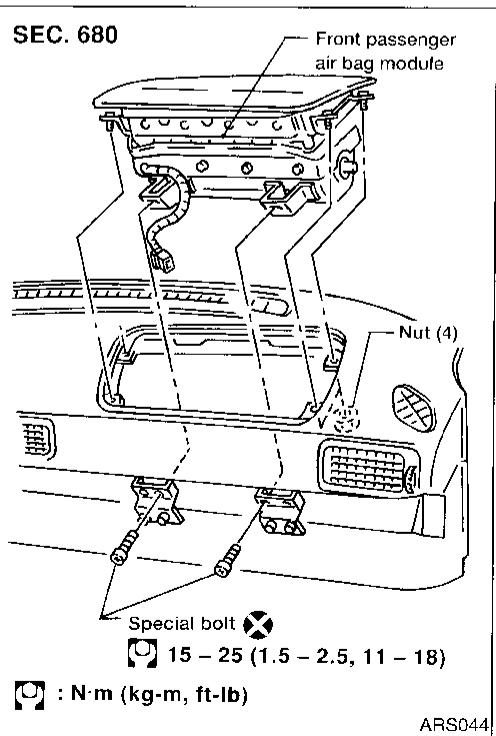
4. Remove four nuts.
 5. Remove front passenger air bag module.
- Air bag module is heavy and should be supported using both hands during removal.

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



- 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.

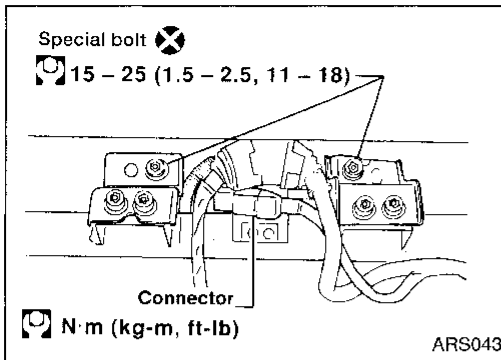


INSTALLATION

1. Install front passenger air bag module in instrument panel.
- Ensure that the harness is not caught between air bag module and support bracket.
 - Tighten four nuts.
 - Install two new special bolts using TAMPER RESISTANT TORX (Size T50).

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

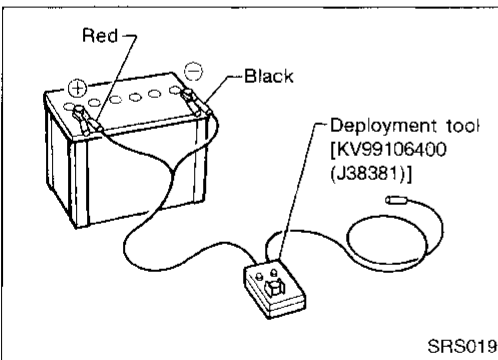
Front Passenger Air Bag Module (Cont'd)



2. Connect front passenger air bag module connector to air bag harness.
3. Install glove box and glove box lid.

Disposal of Air Bag Module

- Make sure to deactivate air bag modules before disposing of them. Also, before disposing of a vehicle equipped with an air bag system, deactivate air bag modules. If such a system has already been deployed due to an accident, dispose of as indicated in the section "DISPOSING OF AIR BAG MODULE", RS-21.
- Do not dispose of the air bag module undeployed.
- When deploying the air bag module, always use the Special Service Tool; Deployment tool (Kent-Moore No. J38381).
- When deploying the air bag module, stand at least 5 m (16 ft) away from the air bag module.
- Due to heat, do not touch air bag module for at least 30 minutes after deployment.
- Be sure to wear gloves when handling a deployed air bag module.
- Never apply water to a deployed air bag module.
- Wash your hands clean after finishing work.



CHECKING DEPLOYMENT TOOL

Connecting to battery

- Place vehicle outdoors with at least 6 m (20 ft) of open space on all sides.
- Use a voltmeter to make sure the vehicle battery is fully charged.

CAUTION:

The battery must show voltage of 9.6V or more.

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

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

CAUTION:

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

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Disposal of Air Bag Module (Cont'd)

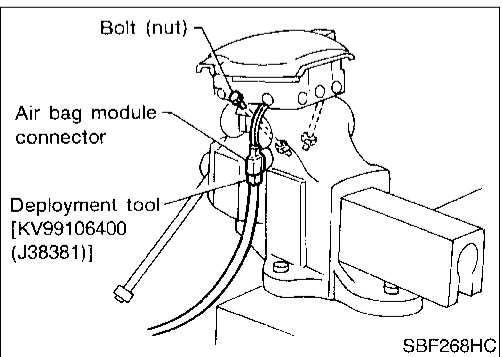
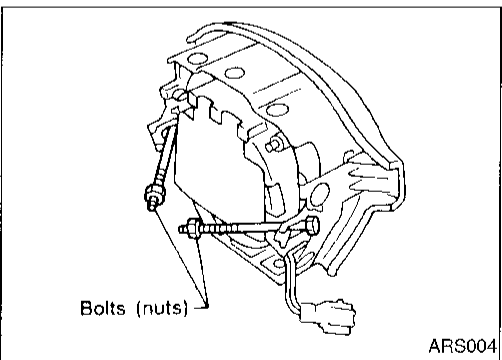
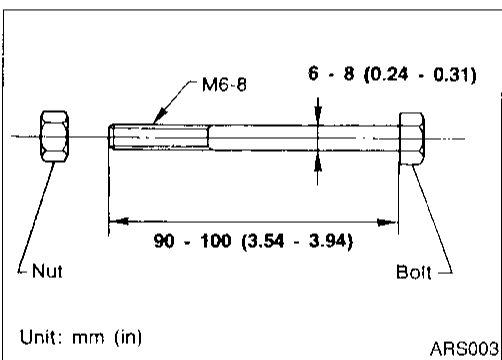
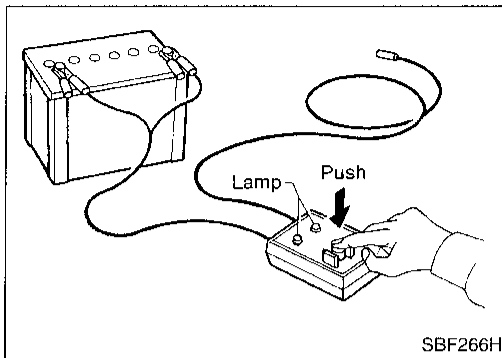
Deployment tool check

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

Air bag deployment tool lamp illumination chart (Battery connected)

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

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



DEPLOYMENT PROCEDURES FOR AIR BAG MODULE (Outside of vehicle)

Unless the vehicle is being scrapped, deploying the air bag module in the vehicle is not recommended. This may cause damage to the vehicle interior.

Anchor air bag module in a vise secured to a firm foundation during deployment.

Deployment of driver air bag module (outside of vehicle)

1. Prepare two sets of nuts and bolts (see figure at left). These bolts are required to secure driver air bag module to the vise.
2. Install one set of nuts and bolts to each side of driver air bag module.

CAUTION:

Make sure to install a bolt and nut on each side.

3. Firmly place two nuts (secured to driver air bag module) in the vise.

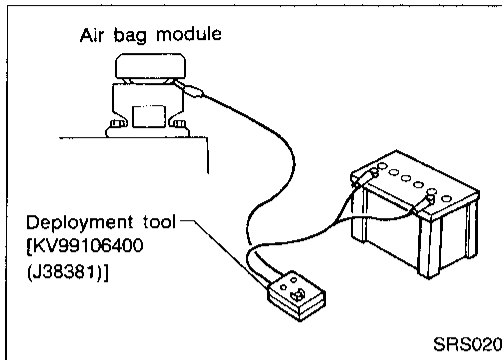
CAUTION:

Ensure that these two nuts are equally placed in the vise. Never finish the installation with just one nut.

4. Connect deployment tool (SST: J38381) to driver air bag module connector.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Disposal of Air Bag Module (Cont'd)

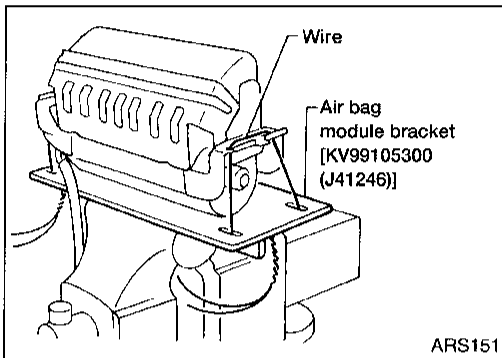


5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
7. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector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

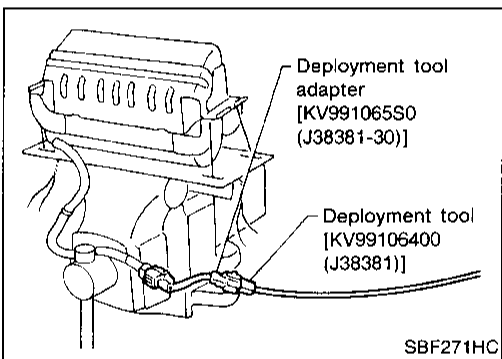
Deployment of front passenger air bag module (outside of vehicle)



1. Using wire, secure front passenger air bag module to air bag module bracket (SST: J41246) at two places.

CAUTION:

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

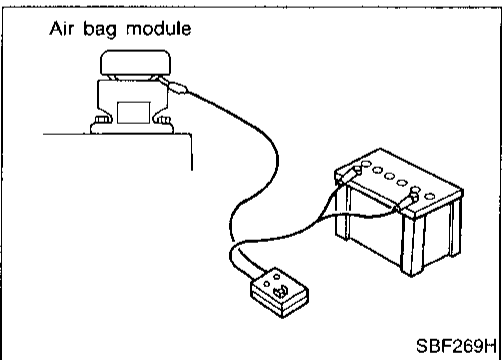


2. Firmly anchor air bag module bracket in a vise.

CAUTION:

Make sure that the vise is firmly secured and will not pivot.

- When positioning the air bag module, face pad side of air bag module to open area. Provide at least 2 m (7 ft) of clearance between pad side of module and any object.
3. Connect deployment tool adapter (SST: J38381-30) to deployment tool (SST: J38381) connector and front passenger air bag module connector.



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

CAUTION:

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

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Disposal of Air Bag Module (Cont'd)

DEPLOYMENT OF AIR BAG MODULE WHILE MOUNTED IN VEHICLE

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

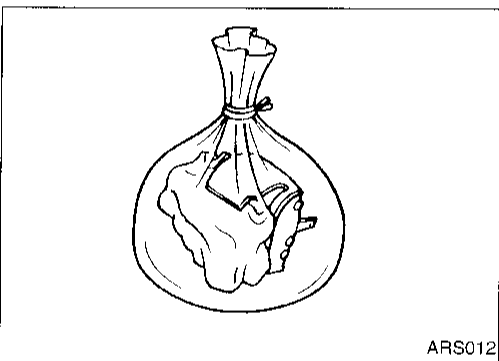
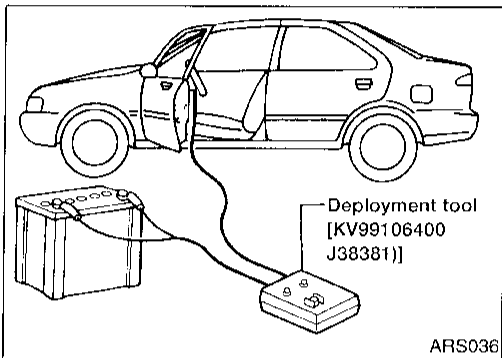
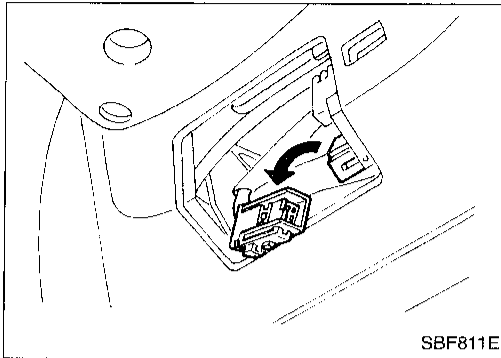
CAUTION:

When deploying air bag module, ensure that the vehicle is empty.

1. Turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
2. Disconnect air bag module connector.
3. Connect deployment tool (SST: J38381) connector to air bag module.

For front passenger air bag module, use adapters (SST: J38381-30) to attach module to deployment tool connector.

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



DISPOSING OF AIR BAG MODULE

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

CAUTION:

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

GI

MA

EM

LC

EC

FE

CL

MT

AT

FA

RA

BR

ST

RS

BT

HA

EL

IDX

How to Perform Trouble Diagnoses for Quick and Accurate Repair

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

INFORMATION FROM CUSTOMER

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

PRELIMINARY CHECK

Check that the following parts are in good order.

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

DIAGNOSIS FUNCTION

The SRS self-diagnosis results can be read by using “AIR BAG” warning lamp and/or CONSULT. The reading of these results is accomplished using one of two modes — “User mode” and “Diagnosis mode”. The User mode is exclusively prepared for the customer (driver). This mode warns the driver of a system malfunction through the operation of the “AIR BAG” warning lamp.

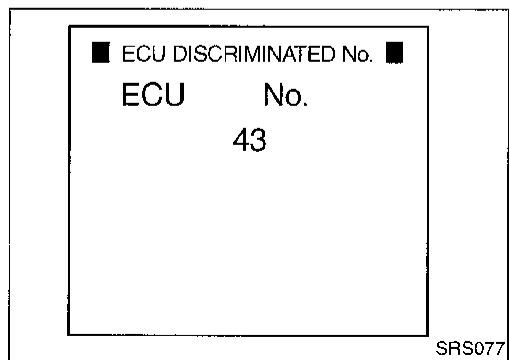
The Diagnosis mode allows the technician to locate and inspect the malfunctioning part.

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

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

DIAGNOSIS MODE FOR CONSULT

- SELF-DIAG [CURRENT]
A current Self-diagnosis result (also indicated by the number of warning lamp flashes in the Diagnosis mode) is displayed on the CONSULT screen in real time. This refers to a malfunctioning part requiring repairs.
- SELF-DIAG [PAST]
Diagnosis results previously stored in the memory (also indicated by the warning lamp flashes in the Diagnosis mode) are displayed on the CONSULT screen. The stored results are not erased until memory erasing is executed.
- TROUBLE DIAG RECORD
With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on the CONSULT screen.



- ECU DISCRIMINATED NO.
The diagnosis sensor unit for each vehicle model is assigned with its own, individual classification number. This number will be displayed on the CONSULT screen, as shown at left. When replacing the diagnosis sensor unit, refer to the part number for the compatibility. After installation, replacement with a correct unit can be checked by confirming this classification number on the CONSULT screen.

For model B14, the diagnosis sensor unit classification number assigned is 43.

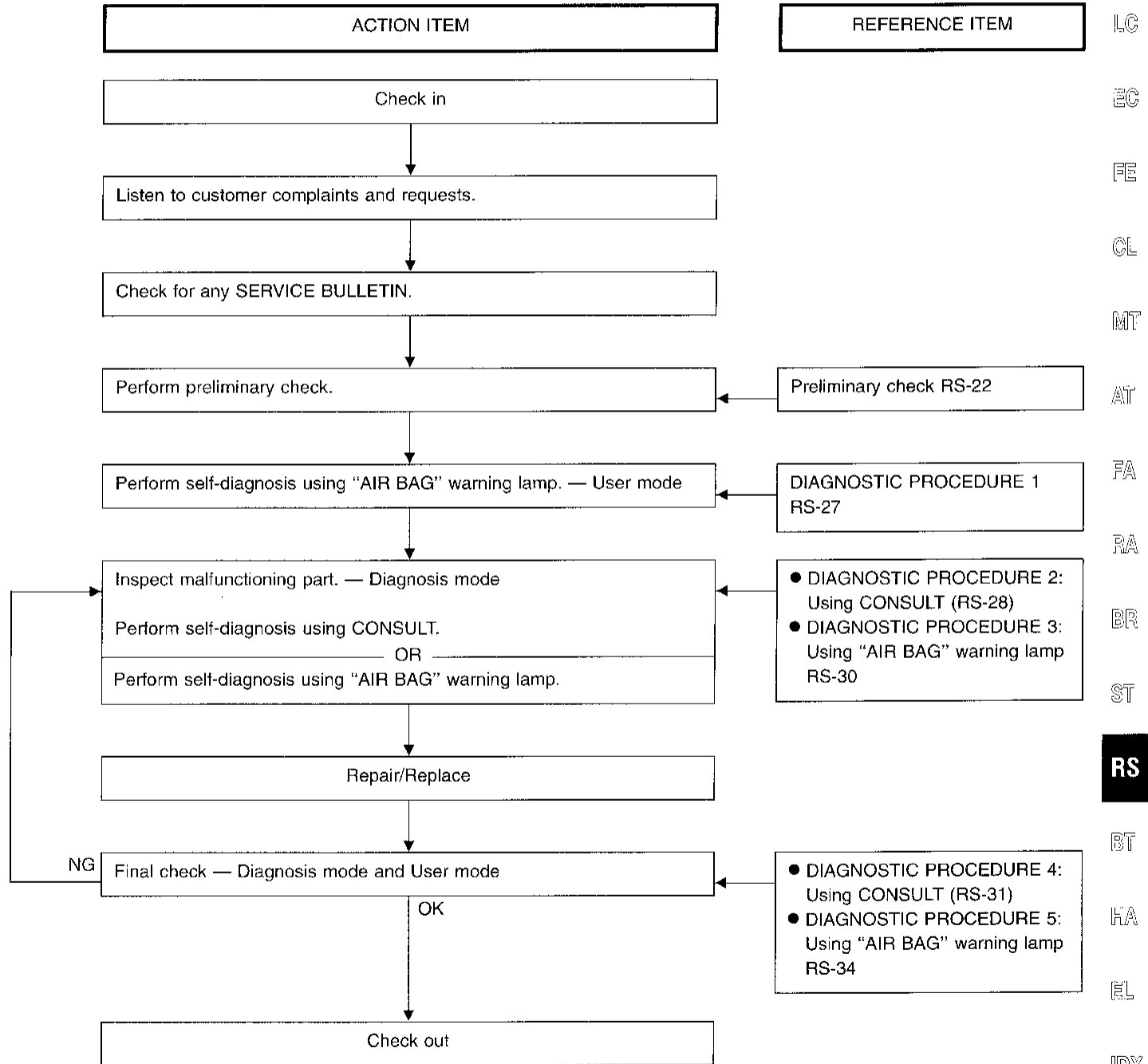
TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

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

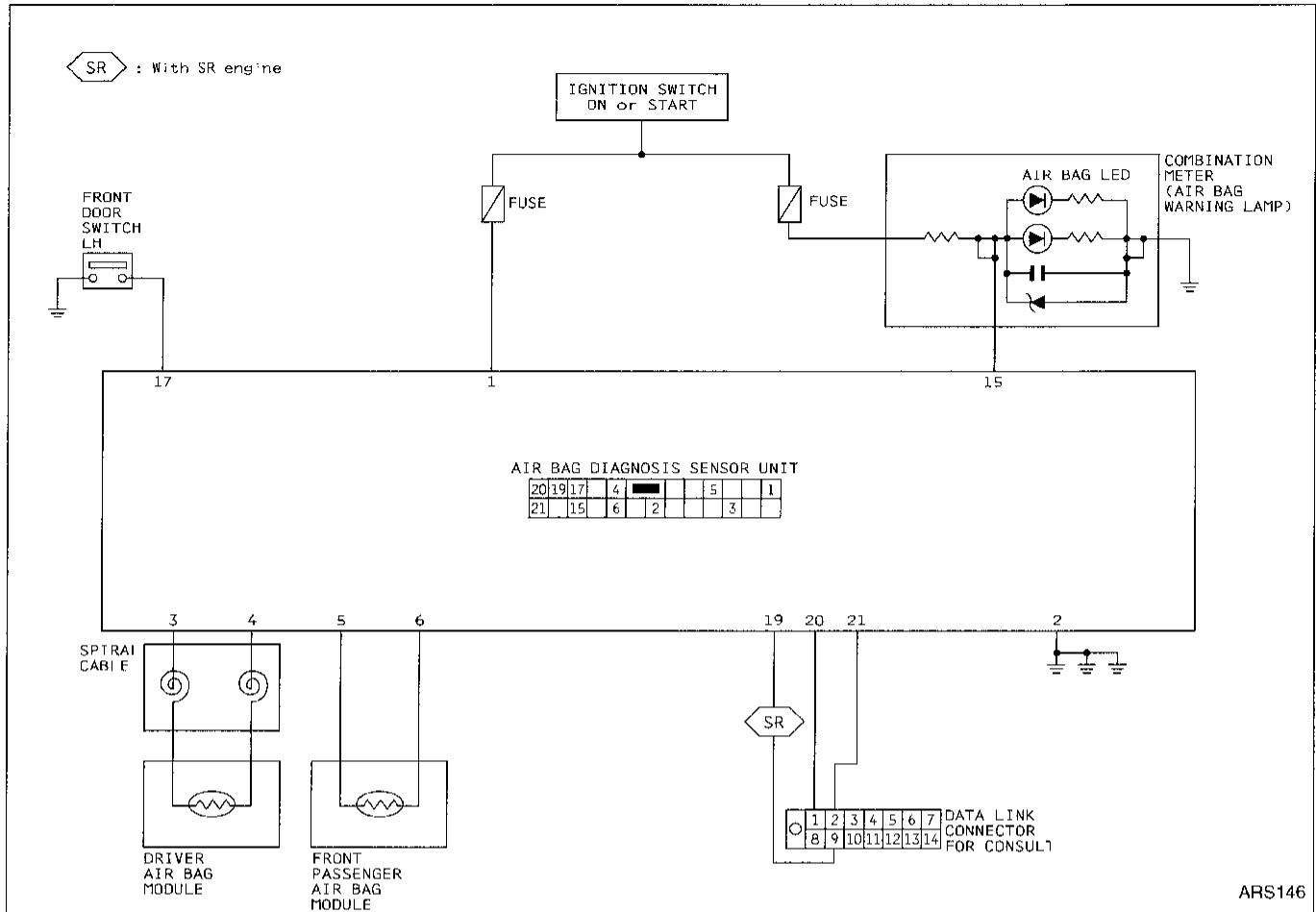
CAUTION:

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

WORK FLOW



Schematic



Wiring Diagram -SRS-

RS-SRS-01

GI

MA

EM

LC

EC

FE

CL

MT

AT

FA

RA

BR

ST

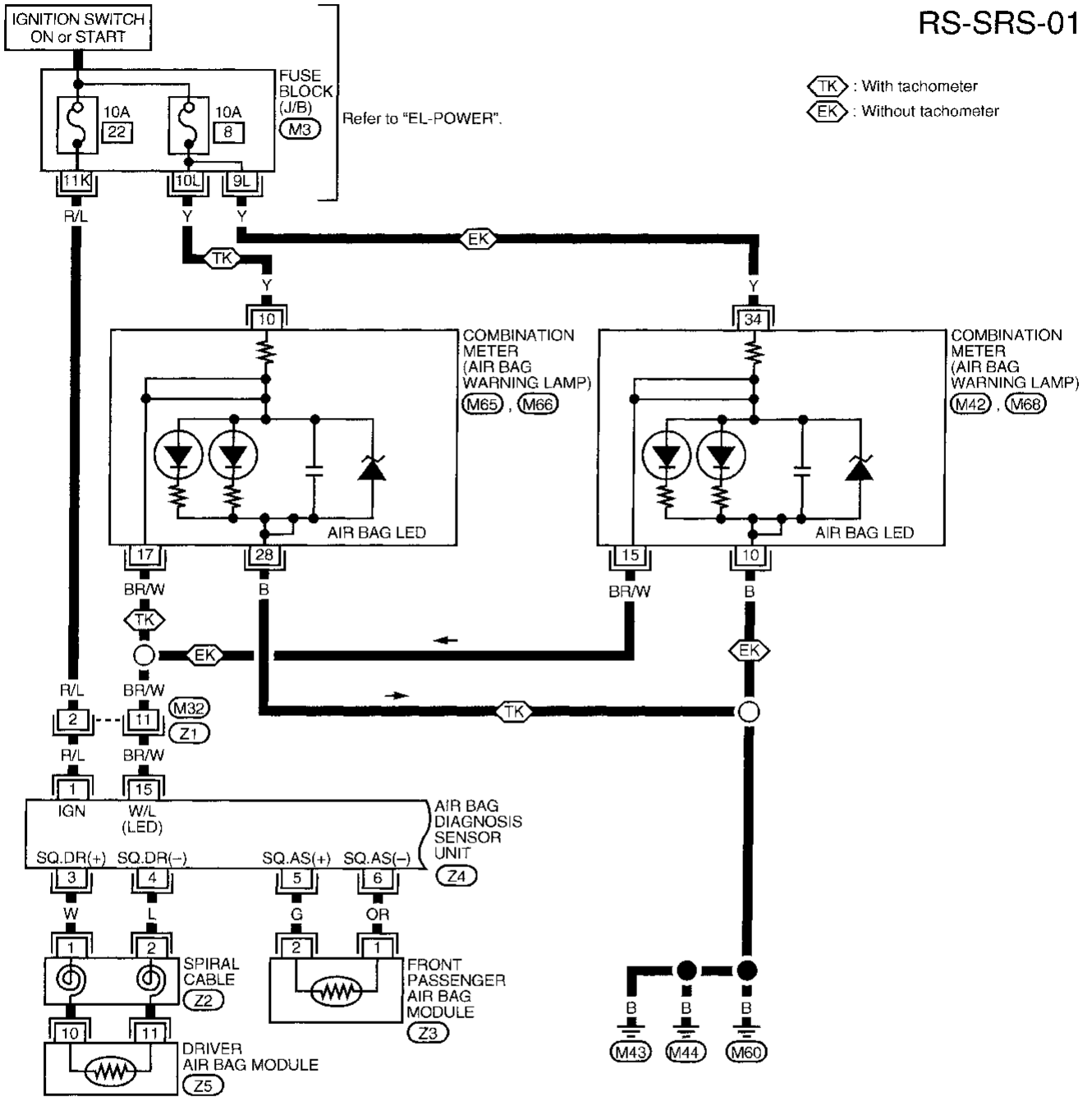
RS

BT

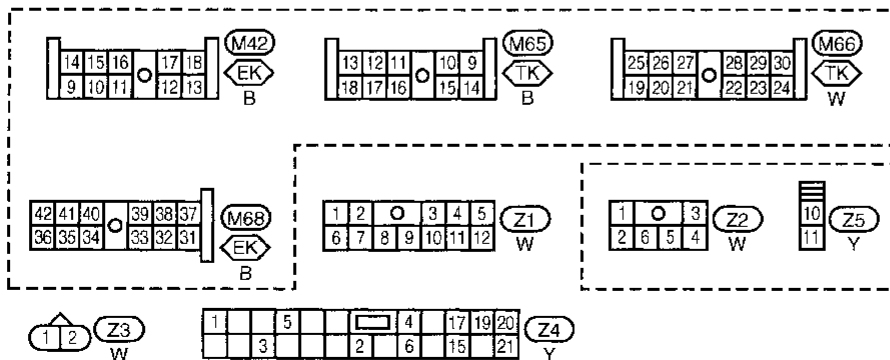
HA

EL

IDX



Refer to last page (Foldout page).

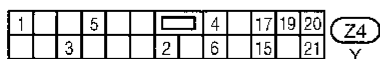
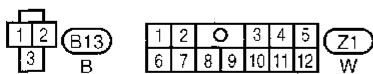
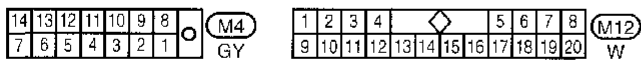
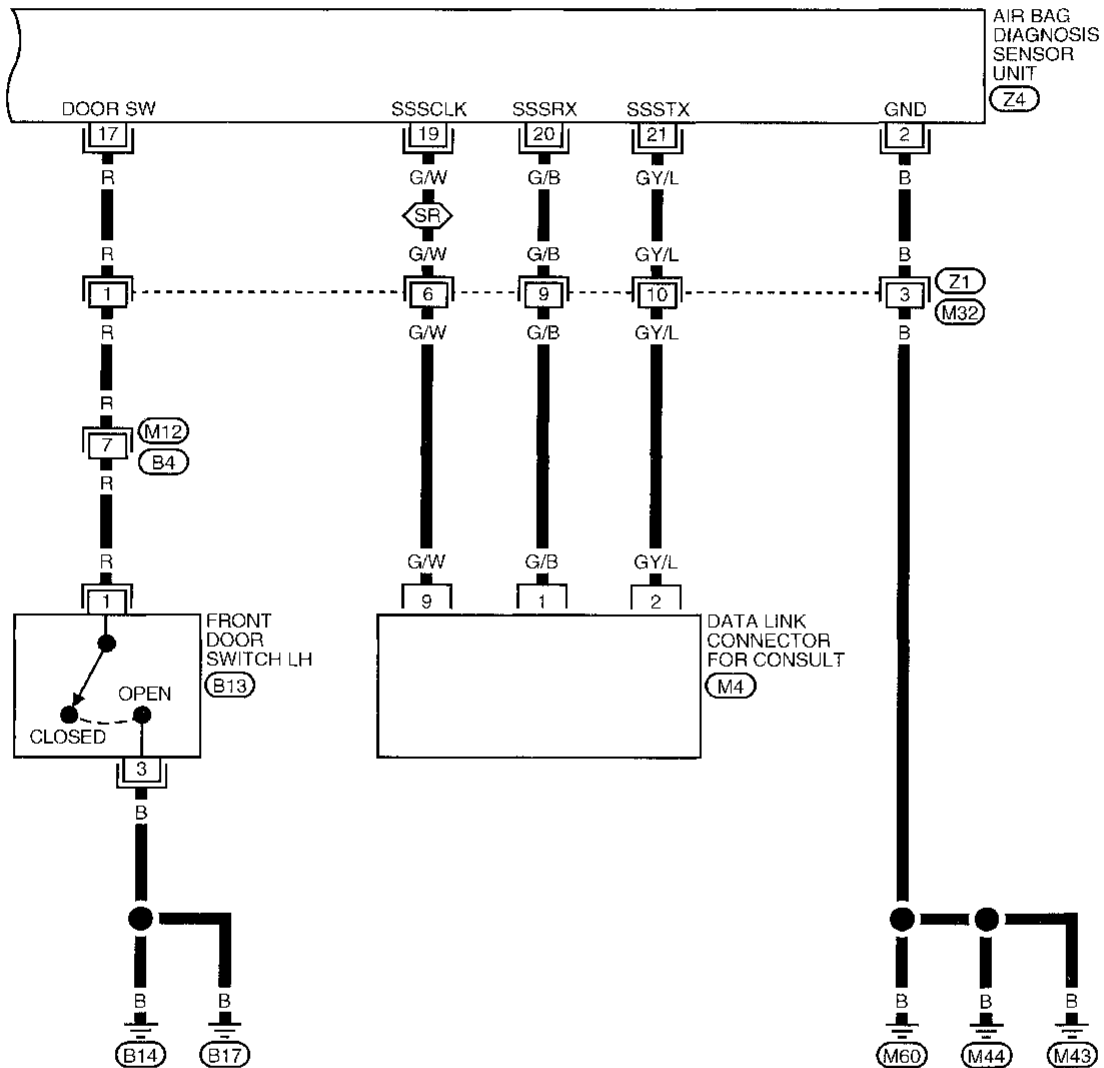


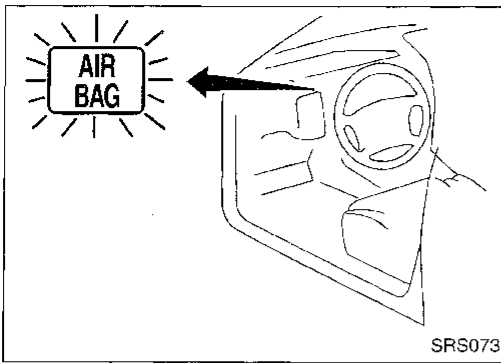
TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Wiring Diagram –SRS– (Cont'd)

RS-SRS-02

(SR) : With SR engine





Self-diagnosis

DIAGNOSTIC PROCEDURE 1

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

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

"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 has a problem and needs to be repaired as indicated.	Go to DIAGNOSTIC PROCEDURE 2, or 3 RS-28 or 30.
<p style="text-align: right;">MRS097A</p>	Air bag is deployed.	Go to COLLISION DIAGNOSIS RS-42.
<p style="text-align: right;">MRS098A</p>	Air bag fuse for diagnosis sensor unit or harness is malfunctioning and needs to be repaired.	Go to DIAGNOSTIC PROCEDURE 8 RS-40.
<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 open. ● "AIR BAG" warning lamp circuit is shorted or open. ● Diagnosis sensor unit is malfunctioning. 	Go to DIAGNOSTIC PROCEDURE 9 RS-40.

NOTE:

If "AIR BAG" warning lamp operates differently from the operations shown above, refer to "AIR BAG" warning lamp operation — Diagnosis mode —, DIAGNOSTIC PROCEDURE 3 (step 4), RS-34. Then repair as necessary.

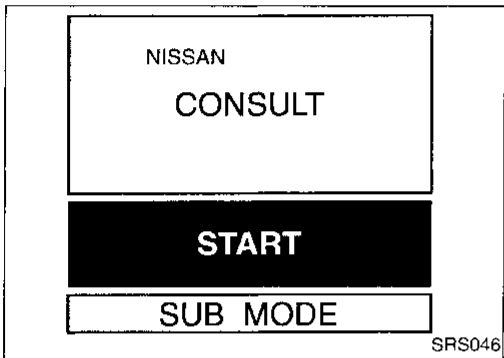
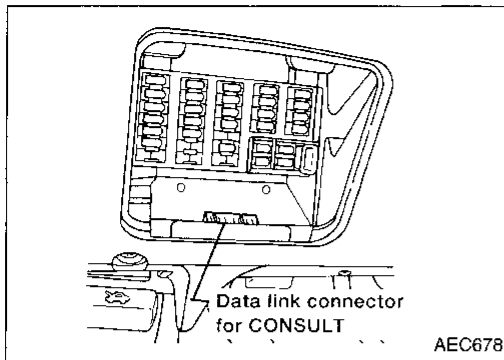
TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)

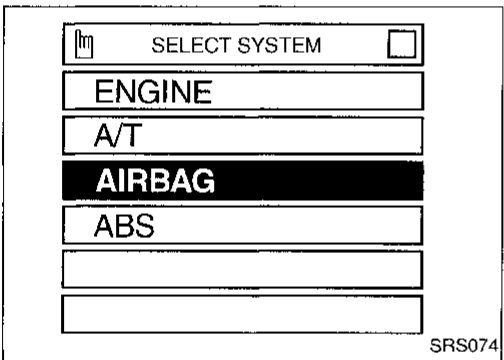
DIAGNOSTIC PROCEDURE 2 (CONSULT with CONSULT)

Inspecting SRS malfunctioning parts by using CONSULT — Diagnosis mode

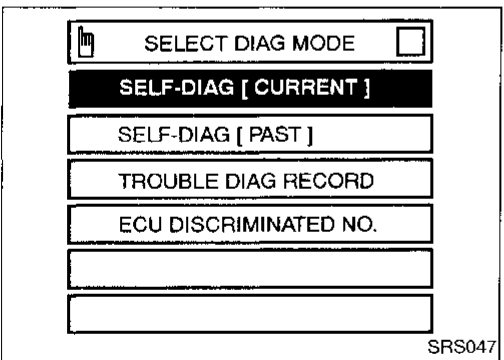
1. Turn ignition switch OFF.
2. Connect CONSULT to data link connector.



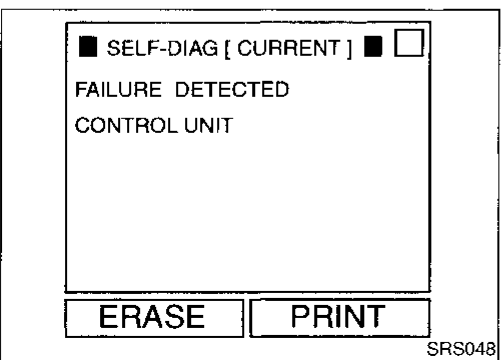
3. Turn ignition switch ON.
4. Touch START.



5. Touch AIRBAG.



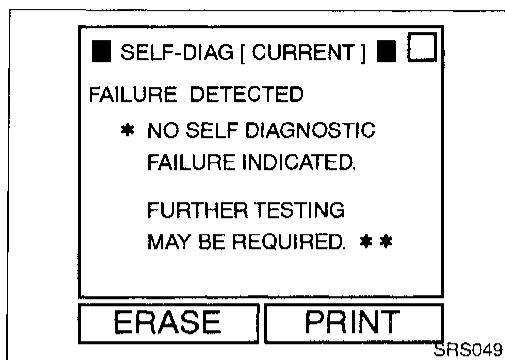
6. Touch SELF-DIAG [CURRENT].



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

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)



- If no self-diagnostic failure is detected on SELF-DIAG [CURRENT] but malfunction is indicated by the "AIR BAG" warning lamp, go to DIAGNOSTIC PROCEDURE 6, RS-36.

8. Touch PRINT.
9. Compare diagnostic codes to the CONSULT DIAGNOSTIC CODE CHART, RS-29.
10. Touch BACK key of CONSULT until SELECT SYSTEM appears, then turn off CONSULT.
11. Turn ignition switch OFF, then disconnect CONSULT and both battery cables.
12. Repair the system as outlined by the Repair order in CONSULT DIAGNOSTIC CODE CHART, that corresponds to the problem code. For replacement procedure of component parts, refer to RS-13.
13. After repairing the system, connect battery cables and go to DIAGNOSTIC PROCEDURE 4, RS-31.

CONSULT DIAGNOSTIC CODE CHART

Diagnostic item	Explanation	Repair order Recheck SRS at each replacement.
NO SELF DIAGNOSTIC FAILURE INDICATED.	• No malfunction is detected.	Go to DIAGNOSTIC PROCEDURE 6
AIRBAG MODULE [OPEN]	• Driver's air bag module circuit is open. (including the spiral cable)	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.
AIRBAG MODULE [VB-SHORT]	• Driver's air bag module circuit is shorted to some power supply circuit. (including the spiral cable)	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.
AIRBAG MODULE [GND-SHORT]	• Driver's air bag module circuit is shorted to ground. (including the spiral cable)	
AIRBAG MODULE [SHORT]	• Driver's air bag module circuits are shorted to each other.	
ASSIST A/B MODULE [VB-SHORT]	• Front passenger air bag module circuit is shorted to some power supply circuit.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the diagnosis sensor unit.
ASSIST A/B MODULE [OPEN]	• Front passenger air bag module circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front passenger air bag module. (Before disposal of it, it must be deployed.) 4. Replace the diagnosis sensor unit.
ASSIST A/B MODULE [GND-SHORT]	• Front passenger air bag module circuit is shorted to ground.	
ASSIST A/B MODULE [SHORT]	• Front passenger air bag module circuits are shorted to each other.	
CONTROL UNIT	• Diagnosis sensor unit is out of order.	• Replace the diagnosis sensor unit.
INDEFINITE FAILURES [AIR BAG]	• Low battery voltage	• Go to DIAGNOSTIC PROCEDURE 4 (RS-31) after charging battery.

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

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)

DIAGNOSTIC PROCEDURE 3 (without CONSULT)

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

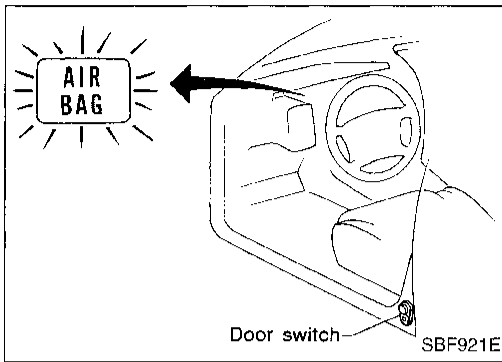
NOTE:

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

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

NOTE:

If SRS does not enter Diagnosis mode even though malfunction is detected in User mode, go to DIAGNOSTIC PROCEDURE 10, RS-41.



No.	"AIR BAG" warning lamp operation — Diagnosis mode —	SRS condition
1	<p style="text-align: right;">(a) through (b) are repeated.</p> <p style="text-align: right;">MRS100A</p>	Intermittent problem has been detected in the past. Go to DIAGNOSTIC PROCEDURE 7 RS-37.
2	<p style="text-align: right;">(a) through (d) are repeated.</p> <p style="text-align: right;">NOTE: (a) — Interval I (b) — Start signal (Start signal identifies display modes) (c) — Interval II (d) — Indicates malfunctioning part (0.5 sec. ON and 0.5 sec. OFF is counted as one flash.)</p> <p style="text-align: right;">MRS099A</p>	The system has a problem and needs to be repaired.

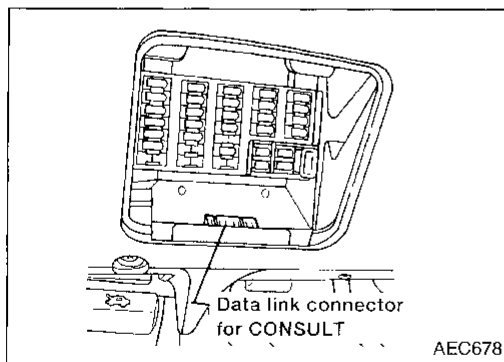
5. Malfunctioning part is indicated by the number of flashes (part (d)). Compare the number of flashes to AIR BAG WARNING LAMP FLASH CODE CHART and locate malfunctioning part.
6. Turn ignition switch OFF, and disconnect both battery cables.
7. Repair the system as outlined by the Repair order in AIR BAG WARNING LAMP FLASH CODE CHART that corresponds to the flash code. For replacement procedure of component parts, refer to RS-13.
8. After repairing the system, go to DIAGNOSTIC PROCEDURE 5, RS-34.

Self-diagnosis (Cont'd)

AIR BAG WARNING LAMP FLASH CODE CHART

Warning lamp	Flash code (d) (# of flashes)	Explanation	Repair order *Recheck SRS at each replacement
"AIR BAG" warning lamp	0	● No malfunction is detected.	Go to DIAGNOSTIC PROCEDURE 7
	2	● The driver air bag module circuit is out of order.	1. Visually check the wiring harness connections. 2. Replace the spiral cable. 3. Replace the driver air bag module. (Before disposing of it, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the air bag harness.
	7	● The diagnosis sensor unit is out of order.	1. Visually check the wiring harness connections. 2. Replace the diagnosis sensor unit.
	8	● The front passenger air bag module circuit is out of order.	1. Visually check the wiring harness connections. 2. Replace the front passenger air bag module. (Before disposing of it, it must be deployed.) 3. Replace the diagnosis sensor unit. 4. Replace the air bag harness.
	9	● Low battery or SRS system voltage.	● Go to DIAGNOSTIC PROCEDURE 5 (RS-34) after charging battery.

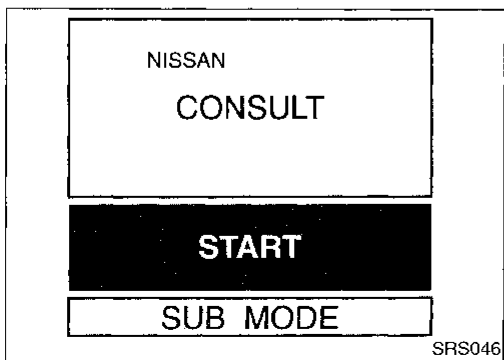
*Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using the "AIR BAG" warning lamp (in User mode) or CONSULT each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated,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



DIAGNOSTIC PROCEDURE 4 (CONSULT with CONSULT)

Final checking after repairing SRS by using CONSULT — Diagnosis mode

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



4. Touch START.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)

SELECT SYSTEM

ENGINE

A/T

AIRBAG

ABS

SRS074

5. Touch AIRBAG.

SELECT DIAG MODE

SELF-DIAG [CURRENT]

SELF-DIAG [PAST]

TROUBLE DIAG RECORD

ECU DISCRIMINATED NO.

SRS047

6. Touch SELF-DIAG [CURRENT].

SELF-DIAG [CURRENT]

FAILURE DETECTED

* NO SELF DIAGNOSTIC FAILURE INDICATED.

FURTHER TESTING MAY BE REQUIRED. **

ERASE PRINT

SRS049

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

NOTE:

Touch ERASE to clear problem (Trouble code) retained in memory. Otherwise, diagnosis sensor unit will still sense problem in memory when step 13 (Air bag warning lamp operation check) is performed. As a result, the "AIR BAG" warning lamp will still indicate a malfunction in the system.

SELF-DIAG [CURRENT]

FAILURE DETECTED

CONTROL UNIT

ERASE PRINT

SRS048

- If any problem code was displayed on SELF-DIAG [CURRENT], the malfunctioning part is not repaired completely or another malfunctioning part is detected. Go to DIAGNOSTIC PROCEDURE 2, RS-28, and repair malfunctioning part completely.

8. Touch BACK key of CONSULT.

SELECT DIAG MODE

SELF-DIAG [CURRENT]

SELF-DIAG [PAST]

TROUBLE DIAG RECORD

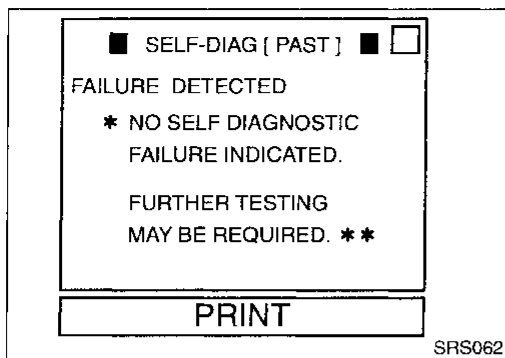
ECU DISCRIMINATED NO.

SRS050

9. Touch SELF-DIAG [PAST].

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)



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

11. Touch BACK key of CONSULT until SELECT SYSTEM appears, turn off CONSULT, then disconnect CONSULT.
12. Turn ignition switch OFF.
13. Go to DIAGNOSTIC PROCEDURE 1, RS-27 to check SRS operation by using "AIR BAG" warning lamp with User mode.

GI

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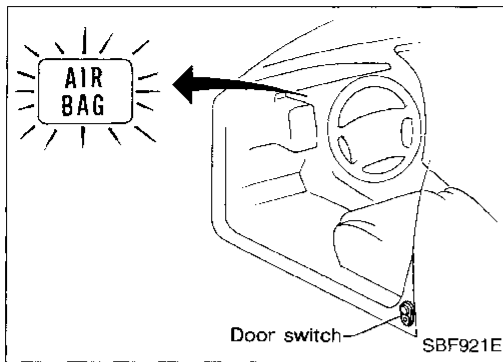
TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)

DIAGNOSTIC PROCEDURE 5 (without CONSULT)

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

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



No.	"AIR BAG" warning lamp operation — Diagnosis mode —	SRS condition
1	<p style="text-align: right;">(a) through (b) are repeated.</p> <p style="text-align: right;">MRS100A</p>	No malfunction is detected or repair is completed. No further action is necessary.
2	<p style="text-align: right;">(a) through (d) are repeated.</p> <p style="text-align: right;">NOTE: (a) — Interval I (b) — Start signal (Start signal identifies display modes) (c) — Interval II (d) — Indicates malfunctioning part (0.5 sec. ON and 0.5 sec. OFF is counted as one flash)</p> <p style="text-align: right;">MRS099A</p>	The system has a problem and needs to be repaired.

NOTE:

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

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

If "AIR BAG" warning lamp operates as in No. 2 in chart above, the malfunctioning part is not repaired completely, or another malfunctioning part is detected. Go to DIAGNOSTIC PROCEDURE 3, RS-30, and repair malfunctioning part completely.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)


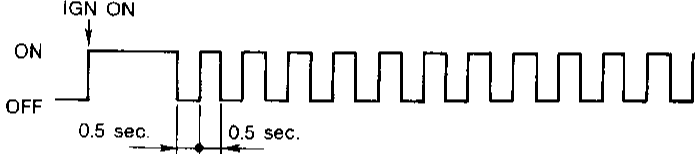

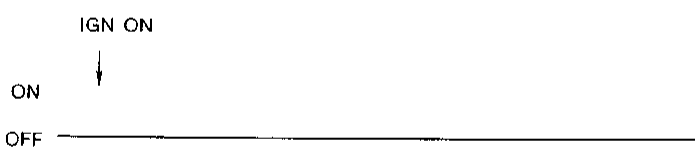
Self-diagnosis (Cont'd)

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

NOTE:

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

SRS is now in User mode.

"AIR BAG" warning lamp operation — User mode —	SRS condition	Reference item
 <p>MRS095A</p>	No malfunction is detected. No further action is necessary.	—
 <p>MRS096A</p>	The system has a problem and needs to be repaired as indicated.	Go to DIAGNOSTIC PROCEDURE 2 or 3 RS-28 or 30.
 <p>MRS097A</p>	Air bag is deployed. Air bag fuse for diagnosis sensor unit or harness is malfunctioning and needs to be repaired.	Go to COLLISION DIAGNOSIS RS-42. Go to DIAGNOSTIC PROCEDURE 8 RS-40.
 <p>MRS098A</p>	One of the following has occurred and needs to be repaired. <ul style="list-style-type: none"> ● Meter fuse is open. ● "AIR BAG" warning lamp circuit is shorted or open. ● Diagnosis sensor unit is malfunctioning. 	Go to DIAGNOSTIC PROCEDURE 9 RS-40.

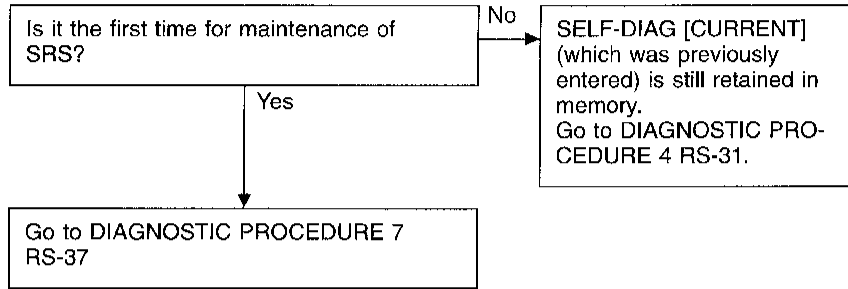
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TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)

DIAGNOSTIC PROCEDURE 6 (Continued from DIAGNOSTIC PROCEDURE 2)

Inspecting SRS malfunctioning record



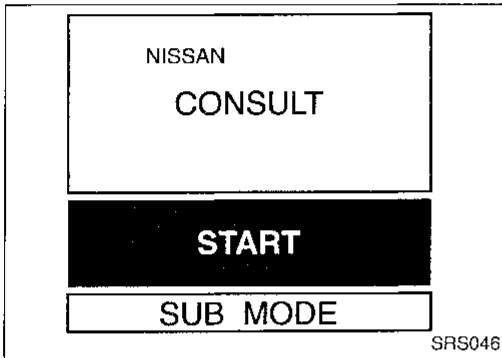
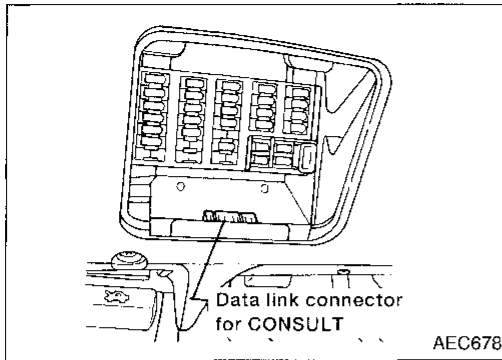
TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

Self-diagnosis (Cont'd)

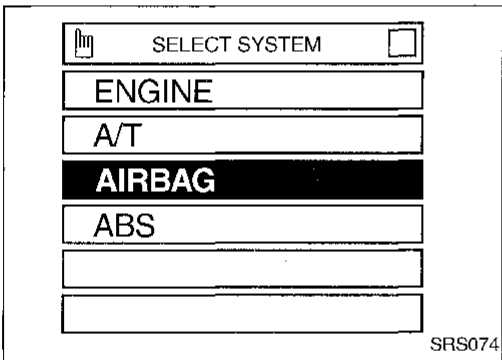
DIAGNOSTIC PROCEDURE 7 (CONSULT with CONSULT)

Inspecting SRS intermittent problem by using CONSULT — Diagnosis mode

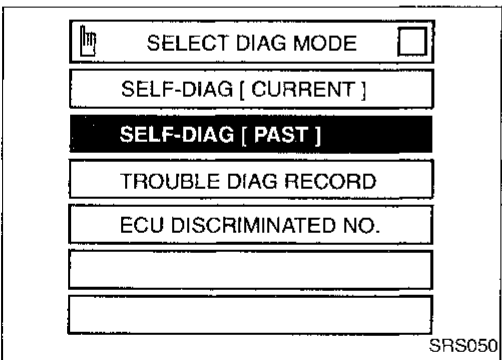
1. Turn ignition switch OFF.
2. Connect CONSULT to data link connector.



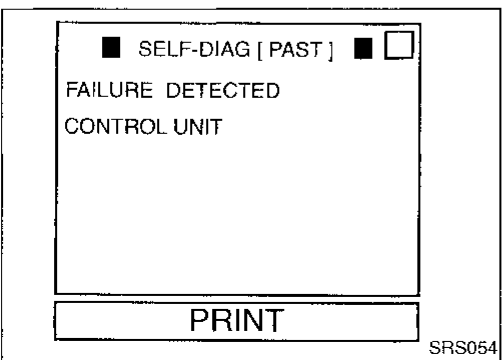
3. Turn ignition switch ON.
4. Touch START.



5. Touch AIRBAG.



6. Touch SELF-DIAG [PAST].



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

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Self-diagnosis (Cont'd)

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

■ SELF-DIAG [PAST] ■

FAILURE DETECTED

* NO SELF DIAGNOSTIC FAILURE INDICATED.

FURTHER TESTING MAY BE REQUIRED. **

PRINT

SRS062

SELECT DIAG MODE

SELF-DIAG [CURRENT]

SELF-DIAG [PAST]

TROUBLE DIAG RECORD

ECU DISCRIMINATED NO.

SRS055

■ TROUBLE DIAG RECORD ■

FAILURE DETECTED

ASSIST A/B MODULE [OPEN]

PRINT

SRS056

8. Touch TROUBLE DIAG RECORD.

9. Diagnostic code is displayed on TROUBLE DIAG RECORD.

10. Touch PRINT.

11. Compare diagnostic codes to the INTERMITTENT PROBLEM DIAGNOSTIC CODE CHART, RS-39.

12. Touch BACK key of CONSULT until SELECT SYSTEM appears, then turn off CONSULT.

13. Turn ignition switch OFF, then disconnect CONSULT and both battery cables.

14. Repair the system as outlined by the Repair order in INTERMITTENT PROBLEM DIAGNOSTIC CODE CHART, that corresponds to the problem code. For replacement procedure of component parts, refer to RS-13.

15. Go to DIAGNOSTIC PROCEDURE 4, RS-31, for final checking.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

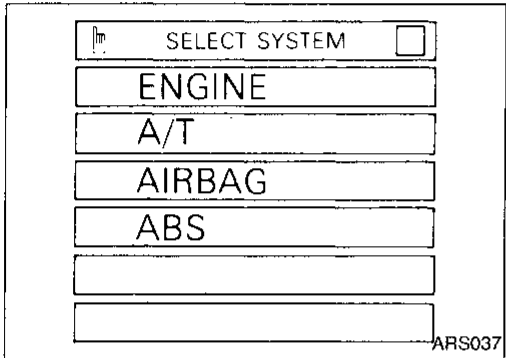
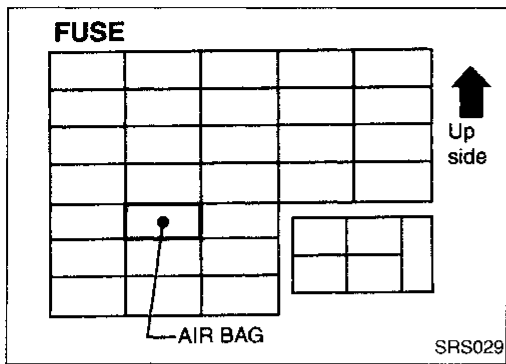
Self-diagnosis (Cont'd)

INTERMITTENT PROBLEM DIAGNOSTIC CODE CHART

Diagnostic item	Explanation	Repair order Recheck SRS at each replacement.	
NO SELF DIAGNOSTIC FAILURE INDICATED.	● No malfunction is detected.	Go to DIAGNOSIS PROCEDURE 4, after charging battery.	GI
AIRBAG MODULE [OPEN]	● Driver's air bag module circuit is open. (including the spiral cable)	<ul style="list-style-type: none"> ● Replace driver's air bag module. (Before disposal of it, it must be deployed.) ● Replace the diagnosis sensor unit. ● Replace the spiral cable. 	MA EM
AIRBAG MODULE [VB-SHORT]	● Driver's air bag module circuit is shorted to some power supply circuit. (including the spiral cable)	<ul style="list-style-type: none"> ● Replace the harness if it has visible damage. ● Replace driver's air bag module. (Before disposing of it, it must be deployed.) ● Replace the spiral cable. 	LC
AIRBAG MODULE [GND-SHORT]	● Driver's air bag module circuit is shorted to ground. (including the spiral cable)	<ul style="list-style-type: none"> ● Replace the diagnosis sensor unit. ● Replace the harness if it has visible damage. 	EC
AIRBAG MODULE [SHORT]	● Driver's air bag module circuits are shorted to each other.		FE
ASSIST A/B MODULE [VB-SHORT]	● Front passenger air bag module circuit is shorted to some power supply circuit.	<ul style="list-style-type: none"> ● Replace front passenger air bag module. (Before disposal of it, it must be deployed.) ● Replace the diagnosis sensor unit. ● Replace the harness if it has visible damage. 	CL
ASSIST A/B MODULE [OPEN]	● Front passenger air bag module circuit is open.		MT
ASSIST A/B MODULE [GND-SHORT]	● Front passenger air bag module circuit is shorted to ground.		AT
ASSIST A/B MODULE [SHORT]	● Front passenger air bag module circuits are shorted to each other.		AT
CONTROL UNIT	● Diagnosis sensor unit is out of order.	● Replace the diagnosis sensor unit.	FA
INDEFINITE FAILURES [AIR BAG]	● Low battery voltage	● Go to DIAGNOSTIC PROCEDURE 4 (RS-31) after charging battery.	FA

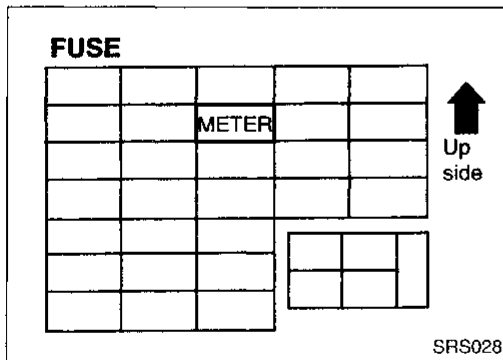
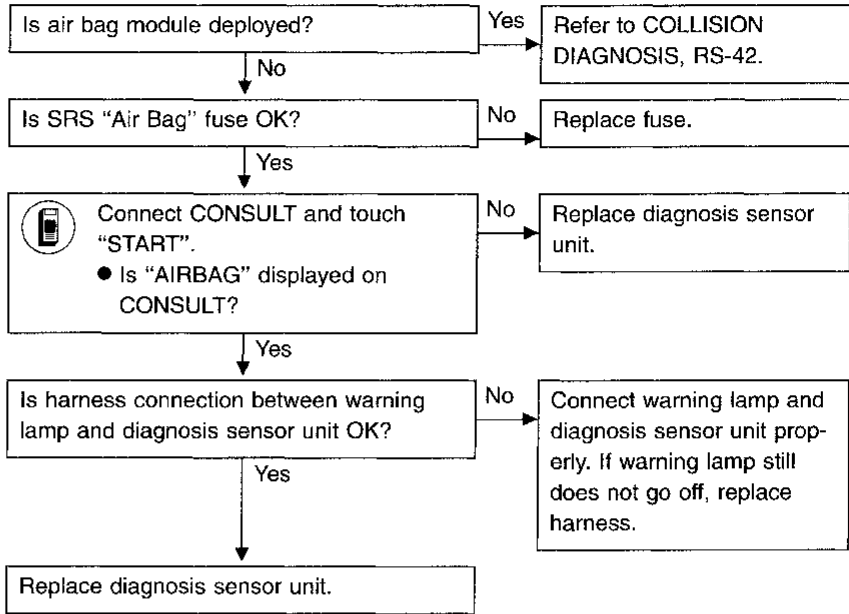
*In the case of an intermittent problem, the effect of each repair procedure might not be able to be judged. So all repair procedures for each "Diagnostic item" should be conducted before the final check using the "AIR BAG" warning lamp (in User mode) or CONSULT.

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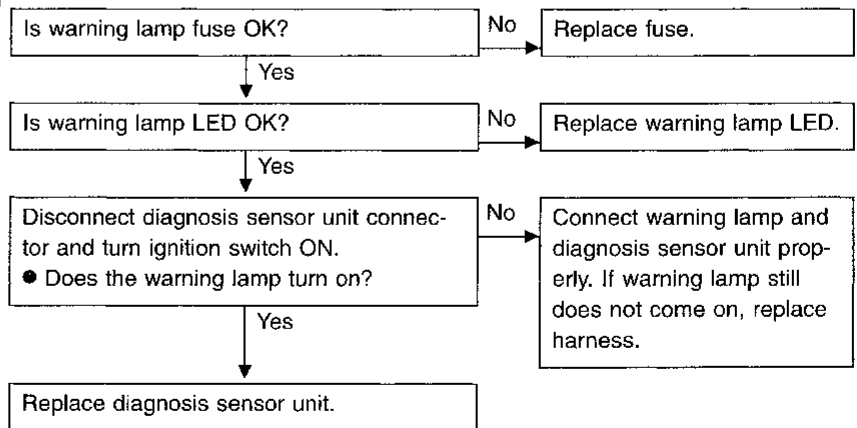
**Trouble Diagnoses for Air Bag Warning Lamp
DIAGNOSTIC PROCEDURE 8**

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



DIAGNOSTIC PROCEDURE 9

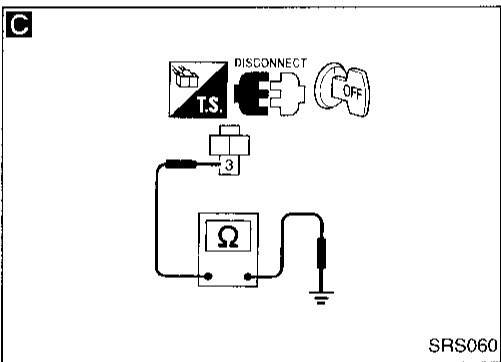
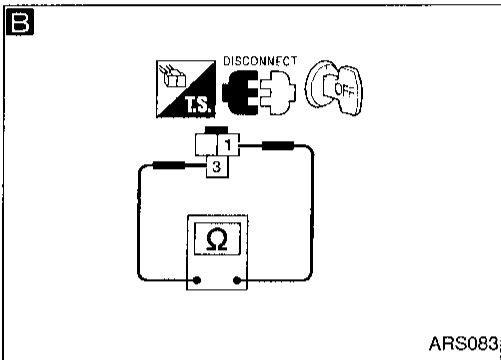
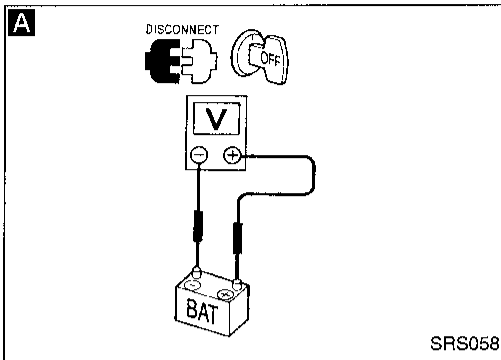
SYMPTOM: "AIR BAG" warning lamp does not turn on.



Trouble Diagnoses for Air Bag Warning Lamp (Cont'd)

DIAGNOSTIC PROCEDURE 10

SYMPTOM: SRS does not enter Diagnosis mode.



A

Disconnect both battery cables and check battery voltage using circuit tester.

- Is battery voltage more than 9V?

No → Charge battery.

Yes ↓

B

Remove driver's door switch and check continuity between driver's door switch connector terminals ① and ③ under the following conditions.

Condition	Continuity
Door switch is depressed (Door is closed).	NO
Door switch is released (Door is open).	YES

No → Replace driver's door switch.

Yes ↓

C

Check harness continuity between driver's door switch connector terminal ③ and body ground.

- Does continuity exist?

No → Replace or repair harness.

Yes ↓

Replace diagnosis sensor unit.

↓

Go to **DIAGNOSTIC PROCEDURE 3, RS-30.**

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COLLISION DIAGNOSIS

To repair the SRS, perform the following steps.

When SRS is activated in a collision:

- ① Replace the diagnosis sensor unit.
- ② Remove the air bag modules.
- 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.
- ⑤ Conduct self-diagnosis using CONSULT and “AIR BAG” warning lamp. Refer to “Self-diagnosis”, RS-27. Ensure that 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).

SRS inspection

Part	SRS is activated	SRS is NOT activated
Air bag module (driver and passenger side)	REPLACE Install with new bolts.	<ol style="list-style-type: none"> 1. Remove air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2-1. Install driver air bag module into the steering wheel and check fit and alignment. 2-2. Install front passenger air bag module into the instrument panel and check fit and alignment. 3. No damage found, reinstall with new bolts. 4. If damaged—REPLACE. Air bag must be deployed before discarding.
Diagnosis sensor unit	REPLACE Install with 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 with new bolts. 4. If damaged—REPLACE.
Instrument panel		<ol style="list-style-type: none"> 1. Check instrument panel for bending, deformities, or cracks. 2. If no damage is found, reinstall with new bolts. 3. If damaged—REPLACE.
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 air bag module and check fit and alignment. 4. Check steering wheel for excessive free play. 5. If no damage is found, reinstall with new bolts. 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 with new bolts. 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. 4. Damaged—REPLACE damaged section of harness. Do not attempt to repair, splice or modify any SRS harness.