

SRS

SECTION

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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PRECAUTIONS

PRECAUTIONS

PFP:00001

Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

EHS000QI

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

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/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harness connectors.

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

EHS000BH

- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch "OFF", disconnect both battery cables and wait at least 3 minutes. For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pre-tensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.
- Diagnosis sensor unit must always be installed with their arrow marks "←" pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned with the neutral position since its rotations are limited. Do not attempt to turn steering wheel or column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and place front side air bag module 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.

Trouble Diagnosis Precaution

EHS000BI

When you read wiring diagrams, refer to the followings:

- "HOW TO READ WIRING DIAGRAMS" in GI section
- [PG-2, "POWER SUPPLY ROUTING"](#) in PG section

When you perform trouble diagnosis, refer to the followings:

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

Check for any service bulletins before servicing the vehicle.

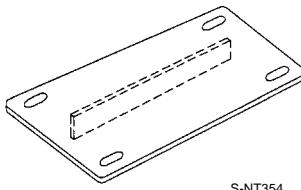
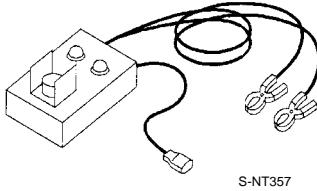
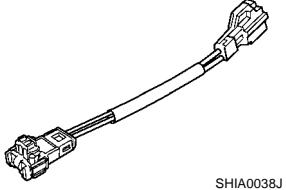
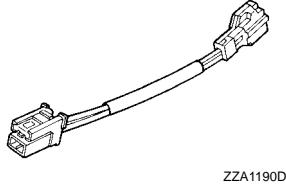
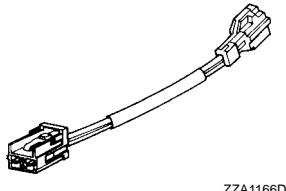
PREPARATION

PREPARATION

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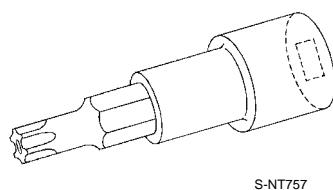
Special Service Tool

EHS000CF

Tool number Tool name	Application
KV99105300 Air bag module bracket	 <p>Anchoring air bag module</p>
KV99106400 Deployment tool	 <p>Disposing of air bag module and front seat belt pre-tensioner</p>
KV99109700 <ul style="list-style-type: none"> Deployment tool adapter for front seat belt pre-tensioner Deployment tool adapter for driver air bag module 	 <ul style="list-style-type: none"> Connection between the deployment tool and front seat belt pre-tensioner Connection between the deployment tool and driver air bag module
KV99109000 Deployment tool adapters for side air bag	 <p>Connection between the deployment tool and side air bag module</p>
KV99108300 Deployment tool adapters for front passenger air bag	 <p>Connection between the deployment tool and front passenger air bag module</p>

Commercial Service Tool

EHS000CG

Tool name	Application
Tamper resistant torx socket	 <p>Size:T30</p>

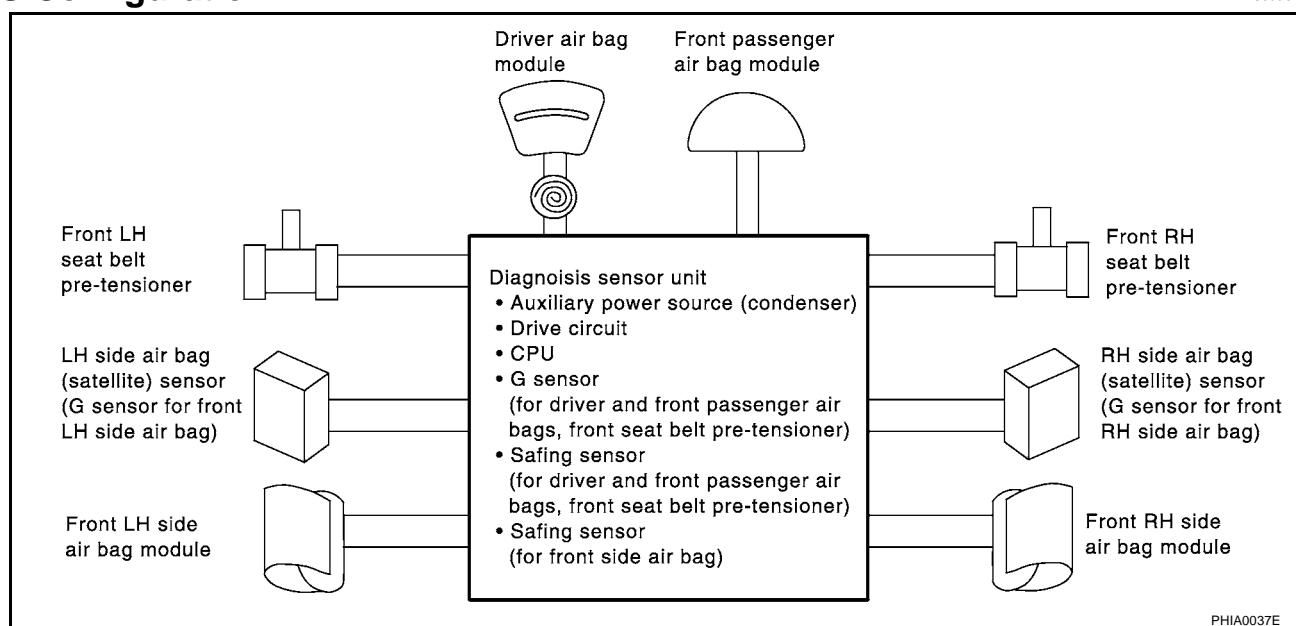
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

SRS Configuration

PFP:28556

EHS000CH



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

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

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

SRS configuration	Frontal collision	Left side collision	Right side collision
Driver air bag module	×	—	—
Front passenger air bag module	×	—	—
Front LH seat belt pre-tensioner	×	—	—
Front RH seat belt pre-tensioner	×	—	—
Front LH side air bag module	—	×	—
Front RH side air bag module	—	—	×

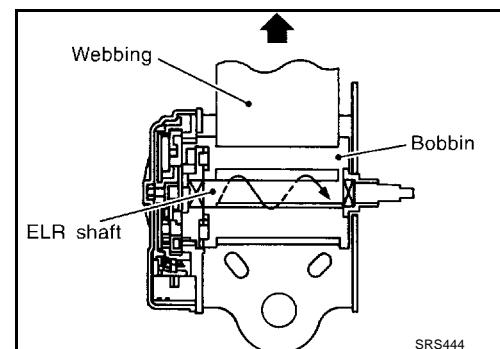
Front Seat Belt Pre-tensioner with Load Limiter

EHS000CI

The seat belt pre-tensioner system with load limiter is installed to both the driver's seat and the front passenger's seat. It operates simultaneously with the SRS air bag system in the event of a frontal collision with an impact exceeding a specified level.

When the frontal collision with an impact exceeding a specified level occurs, seat belt slack resulting from clothing or other factors is immediately taken up by the pre-tensioner. Vehicle passengers are securely restrained.

When passengers in a vehicle are thrown forward in a collision and the restraining force of the seat belt exceeds a specified level, the load limiter permits the specified extension of the seat belt by the twisting of the ELR shaft, and a relaxation of the chest-area seat belt web tension while maintaining force.



SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

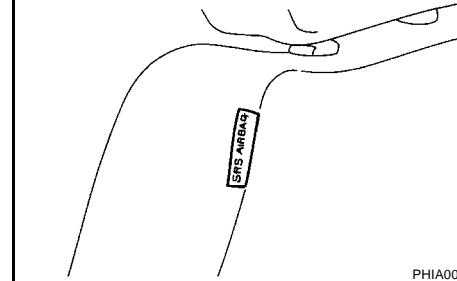
Front Side Air Bag

EHS000CJ

Front side air bag is built-in type.

The front seat backs with built-in type side air bag have the labels shown in figure at right.

Front seat back with front side air bag



PHIA0039E

TROUBLE DIAGNOSIS

PFP:00004

Trouble Diagnosis Introduction

EHS000CL

CAUTION:

- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harness can be identified by yellow and/or orange harness connector.
- 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 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

NOTE:

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

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.

SRS

Information From Customer

WHAT..... Vehicle model

WHEN..... Date, Frequencies

WHERE..... Road conditions

HOW..... Operating conditions, Symptoms

Preliminary Check

Check that the following parts are in good order.

- Battery Refer to [SC-3, "BATTERY"](#) .
- Fuse Refer to [PG-2, "POWER SUPPLY ROUTING"](#) .
- System component-to-harness connections

WORK FLOW

NOTE:

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

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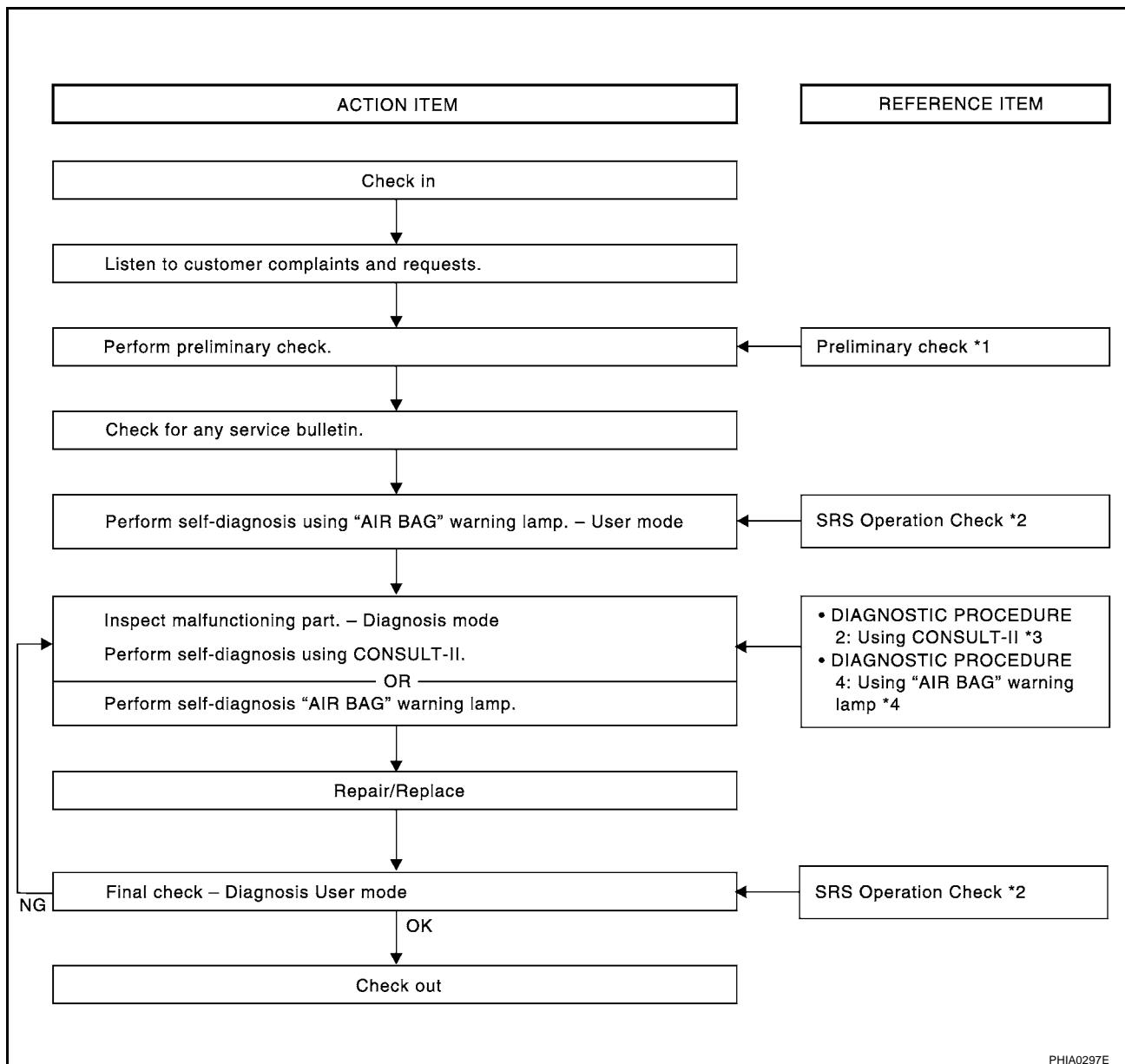
J

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TROUBLE DIAGNOSIS



*1: [SRS-7](#)

*2: [SRS-16](#)

*3: [SRS-23](#)

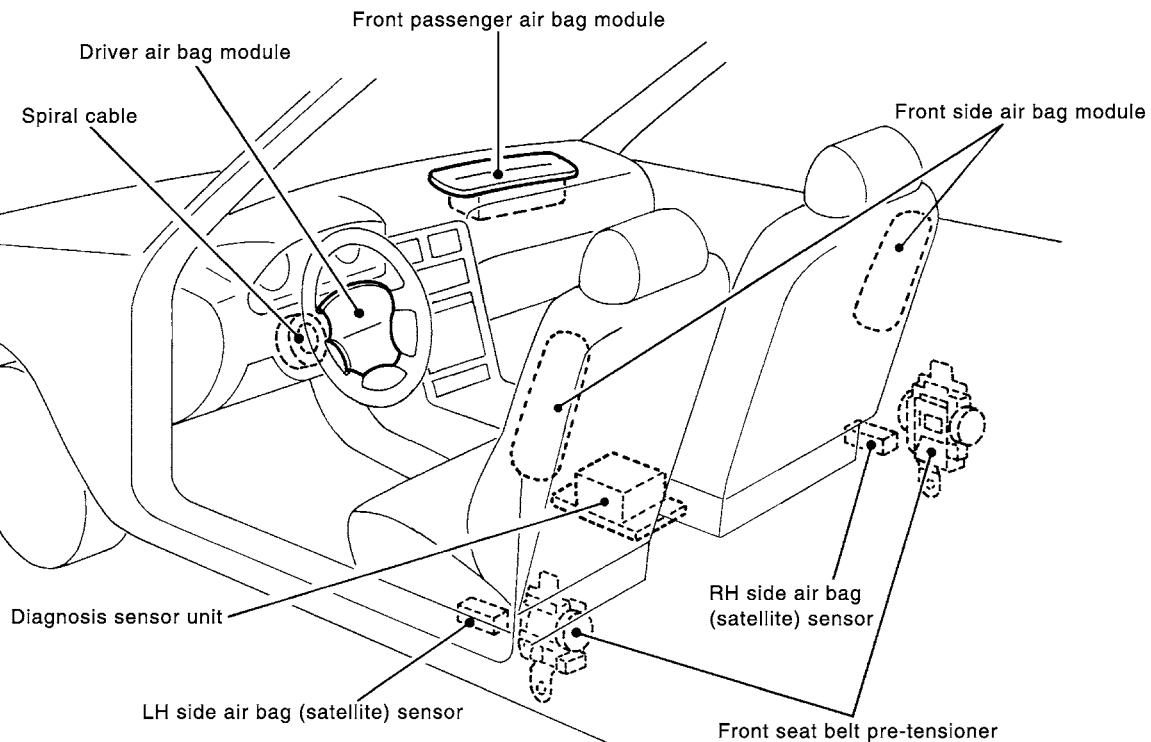
*4: [SRS-27](#)

TROUBLE DIAGNOSIS

SRS Components Parts Location

EHS000CM

SEC. 240•251•253•489•680•878•870



PHIA0020E

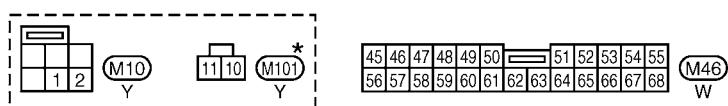
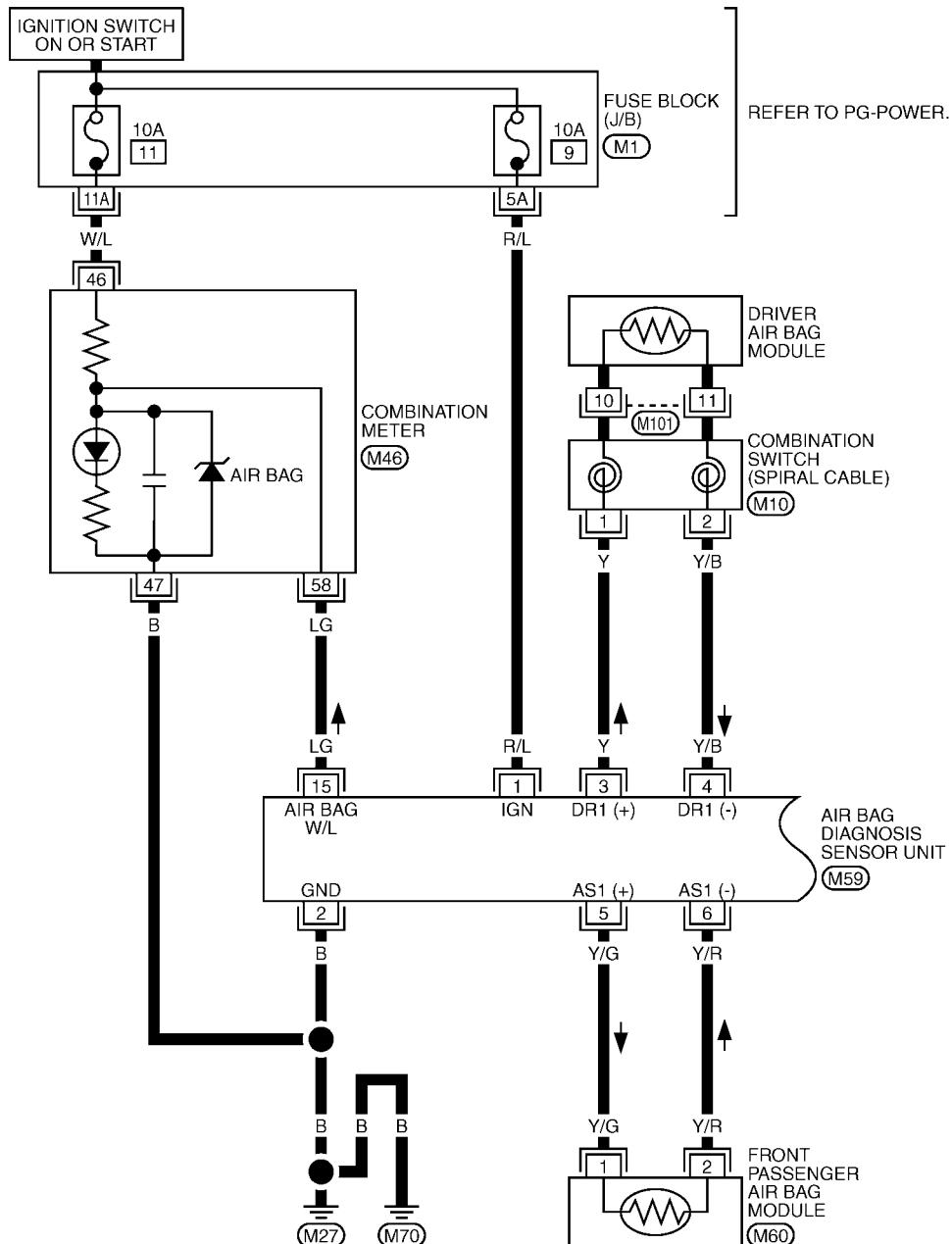
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TROUBLE DIAGNOSIS

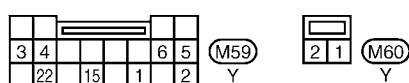
Wiring Diagram — SRS — /LHD models

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SRS-SRS-01



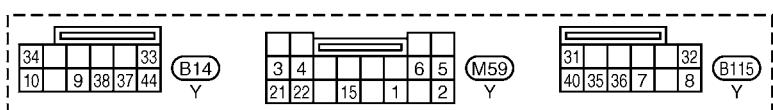
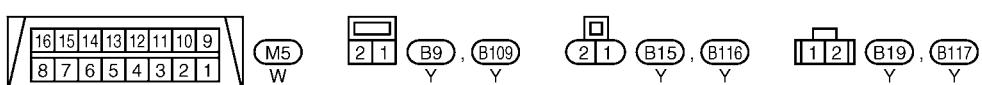
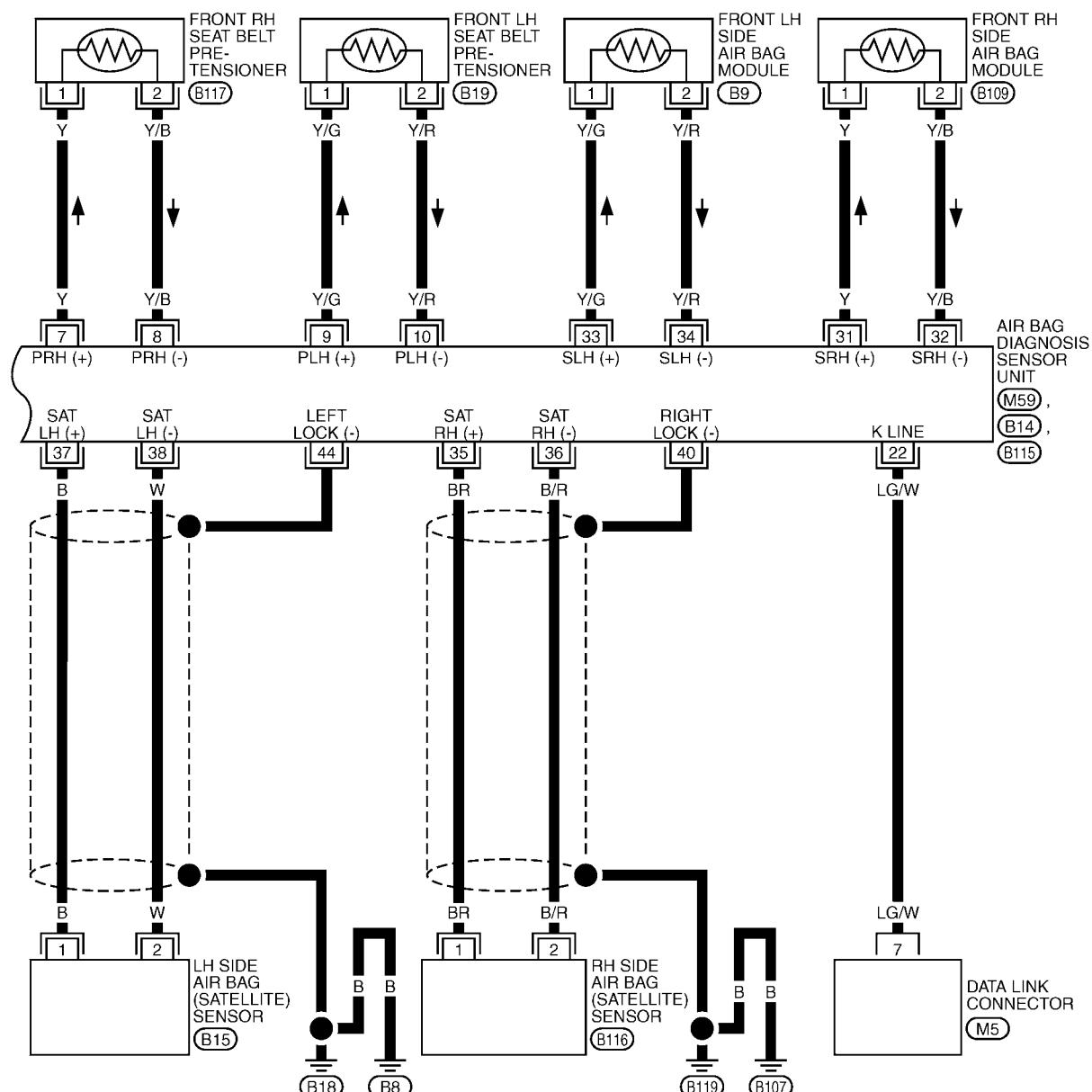
REFER TO THE FOLLOWING.
M1 -FUSE BLOCK-JUNCTION
BOX (J/B)



*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TROUBLE DIAGNOSIS

SRS-SRS-02

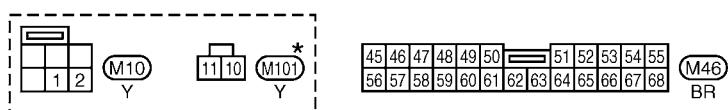
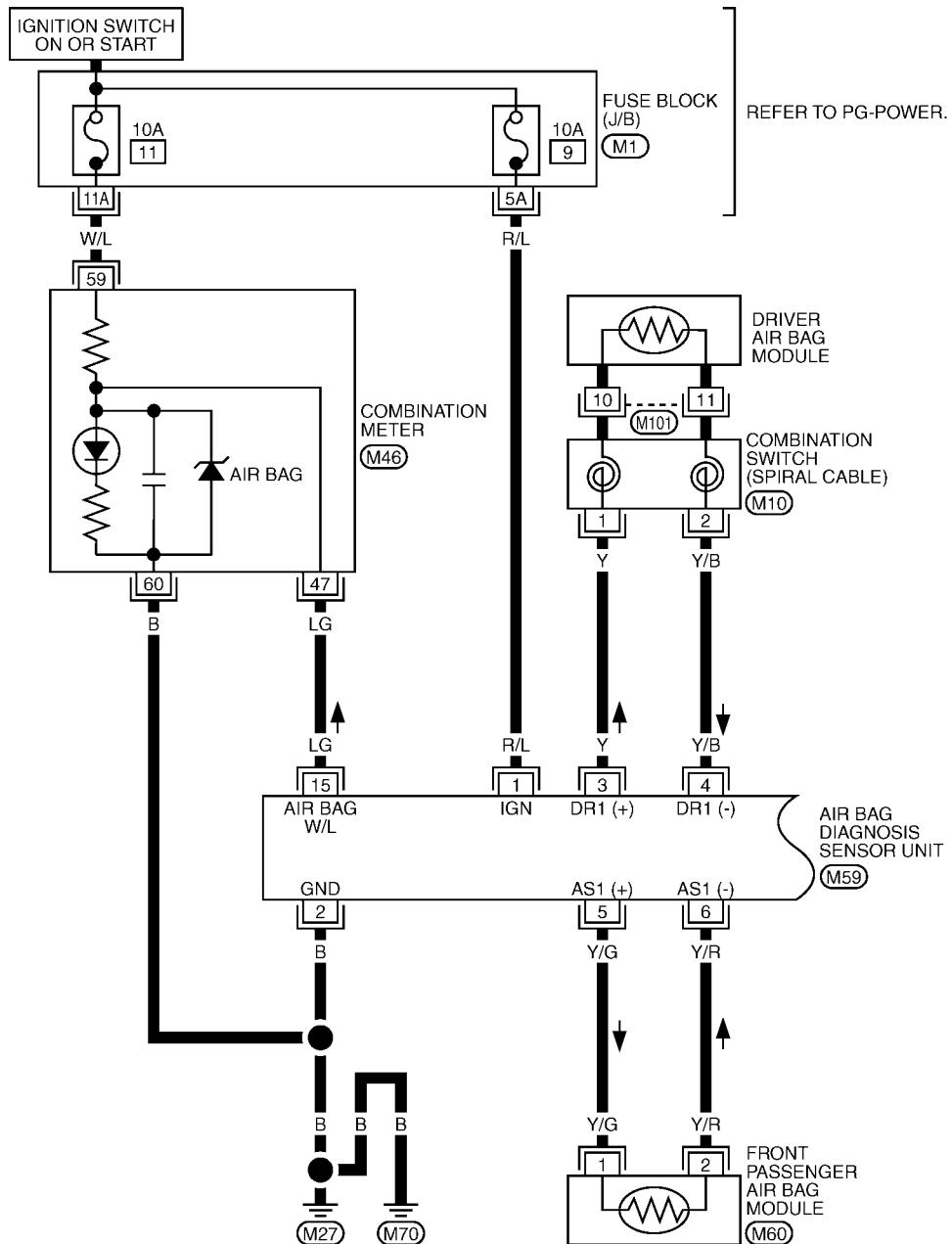


TROUBLE DIAGNOSIS

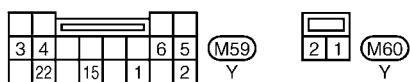
Wiring Diagram-SRS-/RHD models

EHS000D6

SRS-SRS-03



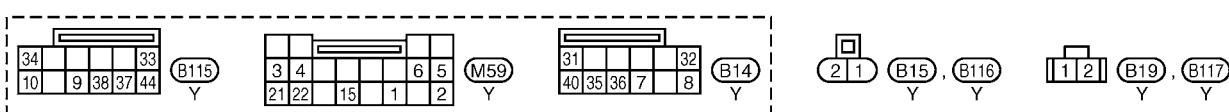
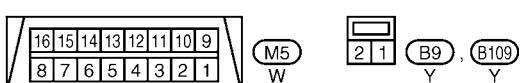
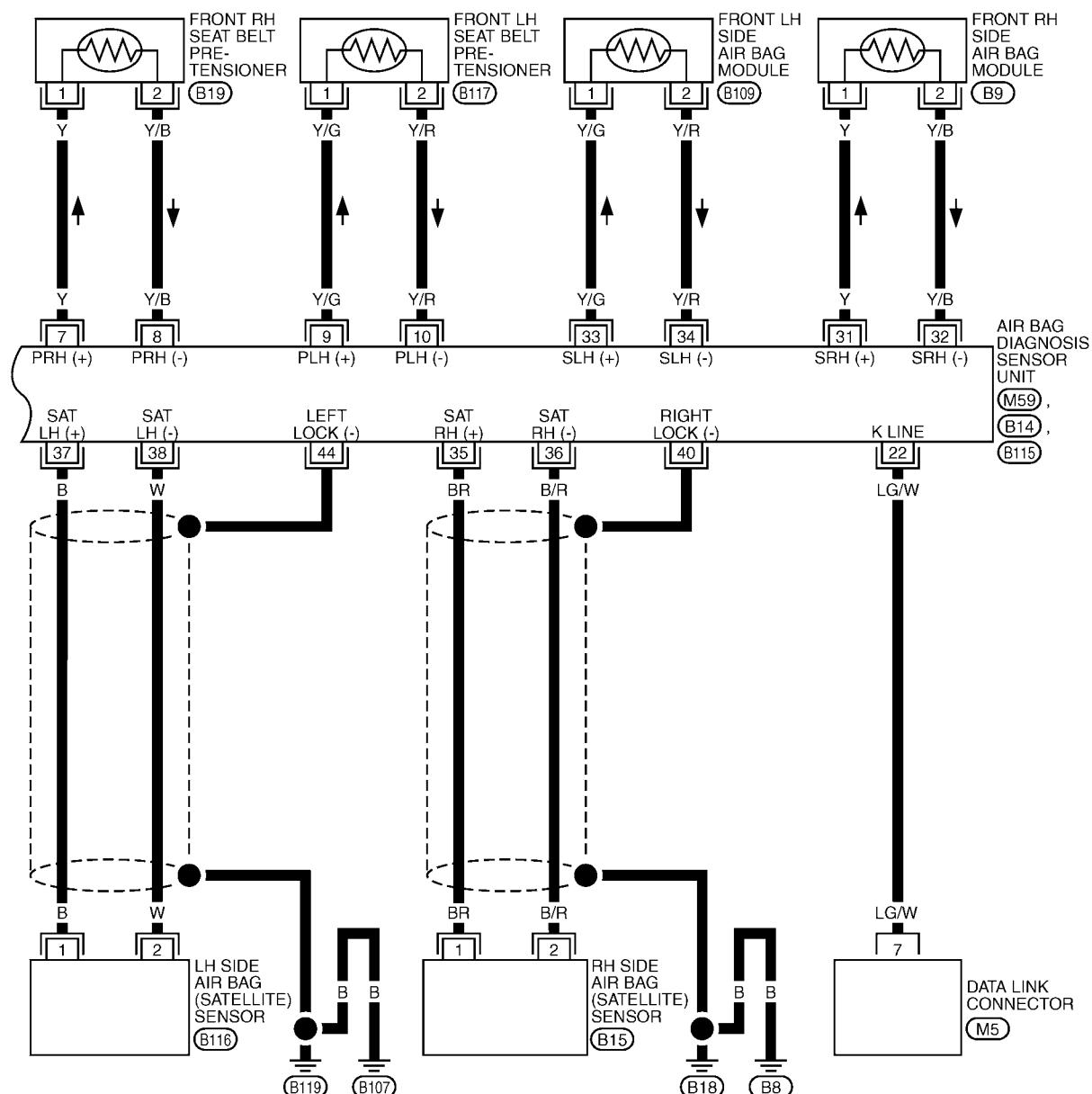
REFER TO THE FOLLOWING.
M1 -FUSE BLOCK-JUNCTION
BOX (J/B)



*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TROUBLE DIAGNOSIS

SRS-SRS-04



THWA0004E

TROUBLE DIAGNOSIS

CONSULT-II Function

DIAGNOSIS MODE FOR CONSULT-II

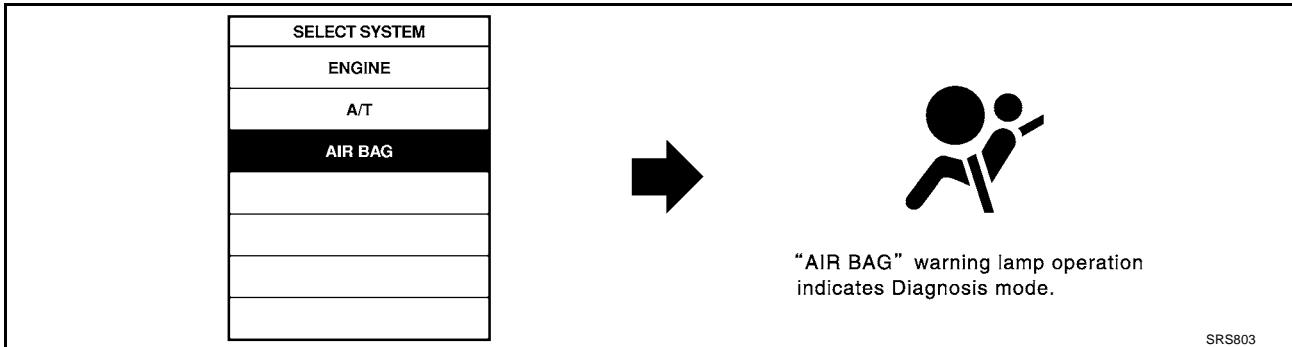
EHS00006

- “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 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 [SRS-40, “ECU DISCRIMINATED NO.”](#) 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.

HOW TO CHANGE SELF-DIAGNOSIS MODE WITH CONSULT-II

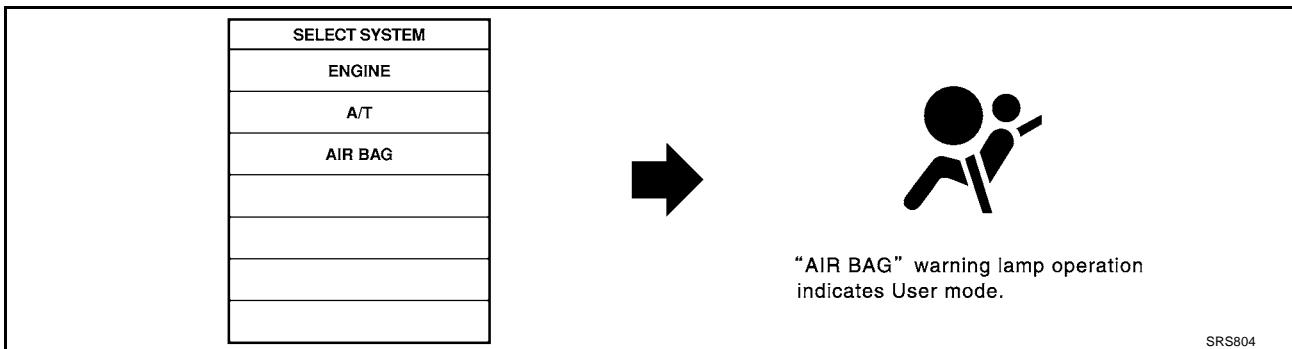
From User Mode to Diagnosis Mode

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.



TROUBLE DIAGNOSIS

HOW TO ERASE SELF-DIAGNOSIS RESULTS

• "SELF-DIAG [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]"

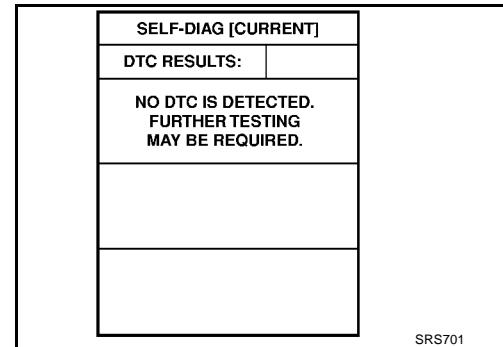
Return to the "SELF-DIAG [CURRENT]" CONSULT-II screen by touching "BACK" key of CONSULT-II and select "SELF-DIAG [CURRENT]" in SELECT DIAG MODE. Touch "ERASE" in "SELF-DIAG [CURRENT]" mode.

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



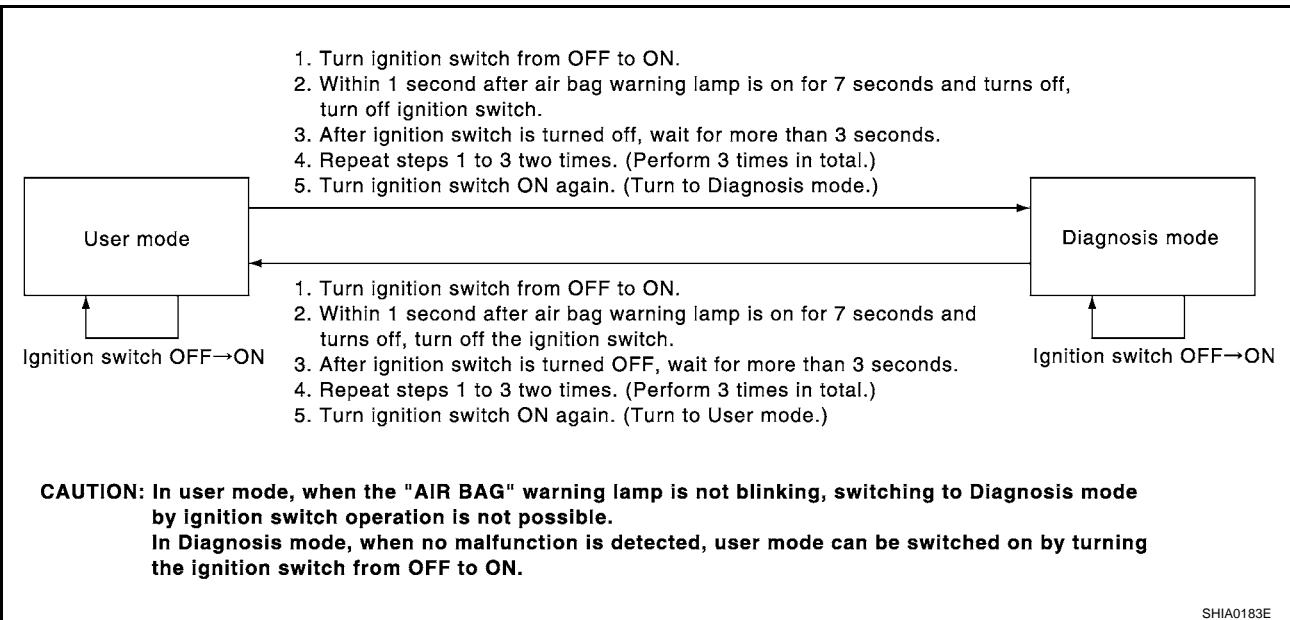
Self-Diagnosis Function (Without CONSULT-II)

EHS00007

SRS

- The reading of these results is accomplished using one of two modes — "User mode" and "Diagnosis mode".
- After a malfunction is repaired, turn the ignition switch "OFF" for at least one second, then back "ON". Diagnosis mode returns to the User mode. At that time, the self-diagnostic result is cleared.

HOW TO CHANGE SELF-DIAGNOSIS MODE



HOW TO ERASE SELF-DIAGNOSIS RESULTS

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

SRS Operation Check DIAGNOSTIC PROCEDURE 1

EHS000MZ

Checking Air Bag Operation by Using “AIR BAG” Warning Lamp-User Mode

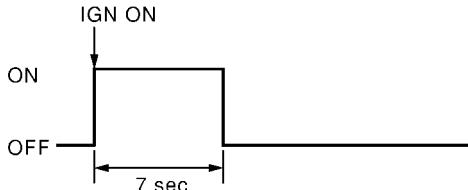
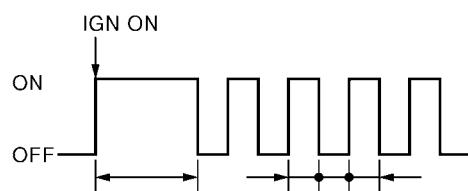
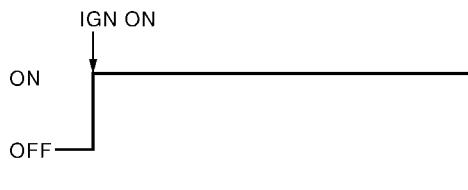
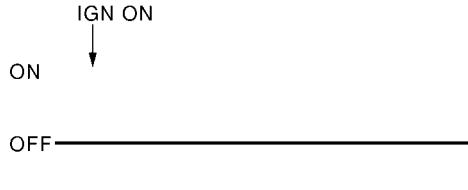
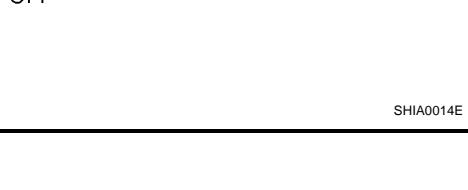
1. Turn the ignition switch from OFF to ON, and check that the air bag warning lamp blinks.
2. Compare the SRS air bag warning lamp blinking pattern with the examples.



BF-1845D

TROUBLE DIAGNOSIS

Warning lamp examples

“AIR BAG” warning lamp operation-User mode-	SRS condition	Reference item
 SHIA0011E	<ul style="list-style-type: none"> ● No malfunction is detected. ● No further action is necessary. 	—
 SHIA0012E	<ul style="list-style-type: none"> ● The system is malfunctioning and need to be repaired as indicated. 	Go to SRS-18, "DIAGNOSTIC PROCEDURE 2" or SRS-27, "DIAGNOSTIC PROCEDURE 5" .
 SHIA0013E	<ul style="list-style-type: none"> ● Air bag is deployed. ● Seat belt pre-tensioner is deployed. 	Go to SRS-47, "COLLISION DIAGNOSIS" .
 SHIA0013E	<ul style="list-style-type: none"> ● Diagnosis sensor unit is malfunctioning. ● Air bag power supply circuit is malfunctioning. ● SRS air bag warning lamp circuit is malfunctioning. 	Go to SRS-27, "Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn Off" .
 SHIA0014E	<ul style="list-style-type: none"> ● Diagnosis sensor unit is malfunctioning. ● Air bag warning lamp circuit is malfunctioning. 	Go to SRS-28, "Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn On" .

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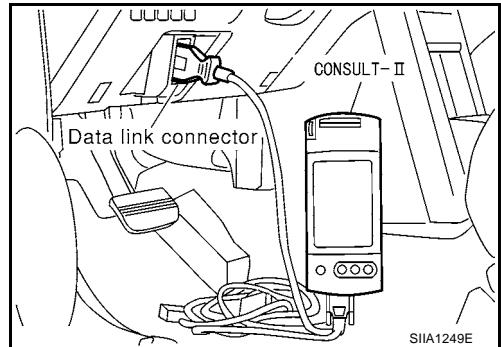
TROUBLE DIAGNOSIS

Trouble Diagnoses With CONSULT-II DIAGNOSTIC PROCEDURE 2

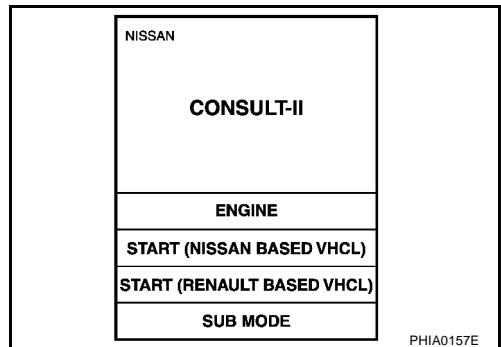
EHS00008

Inspecting SRS Malfunctioning Parts by Using CONSULT-II — DIAGNOSIS MODE

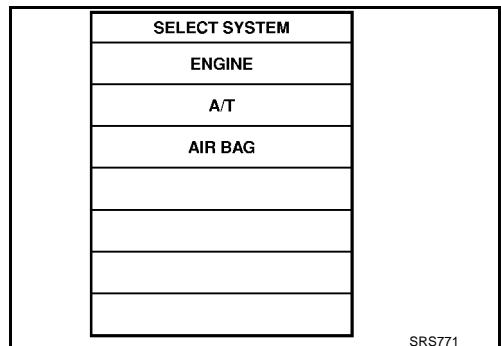
1. Turn ignition switch OFF.
2. Connect CONSULT-II to the data link connector.



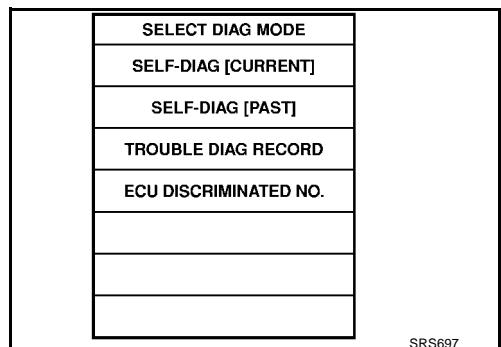
3. Turn ignition switch ON.
4. Touch "START (NISSAN BASED VHCL)".



5. Touch "AIR BAG".
If "AIR BAG" is not indicated, [GI-34, "CONSULT-II Data Link Connector \(DLC\) Circuit"](#) .



6. On the "self-diagnosis mode selection" screen of CONSULT-II, select the desired "self-diagnosis mode key".



TROUBLE DIAGNOSIS

- a. Touch “SELF-DIAG [CURRENT]”.
 - Diagnostic code is displayed on “SELF-DIAG [CURRENT]”.

SELF-DIAG [CURRENT]	
DTC RESULTS:	
DRIVER AIR BAG MODULE [OPEN]	

SHIA0203E

i. If the malfunction is displayed in the "SRS Operation Check (Air bag warning lamp blinking) but no malfunction is displayed in the "SELF-DIAG [CURRENT]", the following possibilities shall be checked. Refer to [SRS-20, "DIAGNOSTIC PROCEDURE 3"](#)

- Low battery voltage (Less than 9V)
- After the malfunction part is repaired, the diagnosis results in "SELF-DIAG [PAST]" has not been erased.
- An intermittent malfunction has been stored in the past

NOTE-

Intermittent malfunction is a malfunction that has occurred once in the past, but soon recovered.

b. Touch “SELF-DIAG [PAST].

- The diagnostic code is displayed until erasing the memory in the “SELF-DIAG [CURRENT]”.

SELF-DIAG [PAST]
DTC RESULTS: <input type="text"/>
DRIVER AIR BAG MODULE
[OPEN]

ANSWER

c. Touch “TROUBLE DIAG RECORD”.

- The diagnosis results (malfunction parts stored in the diagnosis sensor unit) stored in the self-diagnosis results are displayed.
- The memory of “TROUBLE DIAG RECORD” cannot be erased.

TROUBLE DIAG RECORD	
DTC RESULTS:	
DRIVER AIR BAG MODULE [OPEN]	

SIIA0182E

7. Each diagnostic code is displayed. Refer to [SRS-21, "DIAGNOSTIC CODE CHART"](#)
8. Touch "PRINT," if required.
9. Based on each diagnosis result, repair or replace the malfunction parts.

CAUTION:

CAUTION: Be sure to start the work after the following steps. Turn the ignition switch OFF, and disconnect both battery cables. Then wait for at least 3 minutes.

SELF-DIAG [CURRENT]	
DTC RESULTS:	
DRIVER AIR BAG MODULE [OPEN]	
ERASE	

ANSWER

TROUBLE DIAGNOSIS

10. After repairing the malfunction, touch "SELF-DIAG [CURRENT]" to check that "No DTC IS DETECTED" is displayed.
 - After checking the display, touch "ERASE".
 - If any malfunction is displayed on "SELF-DIAG [CURRENT]", repair or replace the malfunctioning again.
11. Touch "BACK" key of CONSULT-II to "SELECT SYSTEM" screen. Touch "SELF-DIAG [PAST]."

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

SRS701

12. Check that no malfunction is detected on "SELF-DIAG [PAST]."
 - If any malfunction is detected, Touch "ERASE" in the "SELF-DIAG [CURRENT]" screen, and check the display.

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

SRS702

13. Turn ignition switch OFF, then turn off and disconnect CONSULT-II.
14. Turn ignition switch ON, and check the system with the SRS air bag warning lamp (User mode).
15. Check that no malfunction is detected. Now the diagnosis is complete.

DIAGNOSTIC PROCEDURE 3

Inspecting SRS Malfunctioning Record

If any malfunction is detected in "SRS Operation Check", but no malfunction is detected in "SELF-DIAG [CURRENT]" on CONSULT-II, carry out the following steps.

1. CHECK BATTERY VOLTAGE

Disconnect both battery cables and check that the battery voltage is 9 V or more.

OK or NG

OK >> GO TO 2.

NG >> Charge the battery.

2. CONSIDER POSSIBILITY OF NOT ERASING SELF-DIAGNOSTIC RESULT AFTER REPAIRING.

Is it the first time for maintenance of SRS?

YES or NO

YES >> GO TO 3.

NO >> Erase the self-diagnostic results, and Check the "SRS Operation Check". Refer to [SRS-16, "SRS Operation Check"](#)

3. CHECK "SELF-DIAG [PAST]" BY CONSULT-II

Store the memory in "SELF-DIAG [PAST]"

YES or NO

YES >> Repair the part of "SELF-DIAG[PAST]"

NO >> Check the "TROUBLE DIAG RECORD", and then repair it. Refer to [SRS-21, "DIAGNOSTIC CODE CHART"](#)

TROUBLE DIAGNOSIS

DIAGNOSTIC CODE CHART

EHS00009

Diagnostic item	Explanation	Repair order "Recheck SRS at each replacement"
NO DTC IS DETECTED.	<p>When malfunction is indicated by the "AIR BAG" warning lamp in User mode.</p> <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. <p>● No malfunction is detected.</p>	<ul style="list-style-type: none"> ● Go to SRS-20, "DIAGNOSTIC PROCEDURE 3" after charging the battery. ● Go to SRS-20, "DIAGNOSTIC PROCEDURE 3".
DRIVER AIRBAG MODULE [OPEN]	● Driver 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 the driver air bag module. (Before disposal, it must be deployed.) 4. Replace the spiral cable. 5. Replace the diagnosis sensor unit. 6. Replace the related harness.
DRIVER AIRBAG MODULE [VB-SHORT]	● Driver air bag module circuit is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE [GND-SHORT]	● Driver air bag module circuit is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE [SHORT]	● Driver air bag module circuit is shorted between lines.	
ASSIST A/B MODULE [OPEN]	● Front passenger air bag module 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 front passenger air bag module. (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
ASSIST A/B MODULE [VB-SHORT]	● Front passenger air bag module circuit is shorted to a power supply circuit.	
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 circuit is shorted between lines.	
SIDE MODULE LH [OPEN]	● Front LH side air bag module 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 front LH setback assembly (front LH side air bag module). (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
SIDE MODULE LH [VB-SHORT]	● Front LH side air bag module circuit is shorted to a power supply circuit.	
SIDE MODULE LH [GND-SHORT]	● Front LH side air bag module circuit is shorted to ground.	
SIDE MODULE LH [SHORT]	● Front LH side air bag module circuit is shorted between lines.	
SIDE MODULE RH [OPEN]	● Front RH side air bag module 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 front RH setback assembly (front RH side air bag module). (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
SIDE MODULE RH [VB-SHORT]	● Front RH side air bag module circuit is shorted to a power supply circuit.	
SIDE MODULE RH [GND-SHORT]	● Front RH side air bag module circuit is shorted to ground.	
SIDE MODULE RH [SHORT]	● Front RH side air bag module circuit is shorted between lines.	

TROUBLE DIAGNOSIS

Diagnostic item	Explanation	Repair order "Recheck SRS at each replacement"
SATELLITE SENS LH [UNIT FAIL] SATELLITE SENS LH [COMM FAIL]	● LH side air bag (Satellite) sensor	<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 LH side air bag (Satellite) sensor. 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
SATELLITE SENS RH [UNIT FAIL] SATELLITE SENS RH [COMM FAIL]	● RH side air bag (Satellite) sensor	<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 RH side air bag (Satellite) sensor. 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
PRE-TEN FRONT LH [OPEN]	● Front LH pre-tensioner circuit is open.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections.
PRE-TEN FRONT LH [VB-SHORT]	● Front LH pre-tensioner circuit is shorted to a power supply circuit.	<ol style="list-style-type: none"> 2. Replace the harness if it has visible damage.
PRE-TEN FRONT LH [GND-SHORT]	● Front LH pre-tensioner circuit is shorted to ground.	<ol style="list-style-type: none"> 3. Replace the front LH seat belt. (Before disposal, it must be activated.)
PRE-TEN FRONT LH [SHORT]	● Front LH pre-tensioner circuit is shorted between lines.	<ol style="list-style-type: none"> 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
PRE-TEN FRONT RH [OPEN]	● Front RH pre-tensioner circuit is open.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections.
PRE-TEN FRONT RH [VB-SHORT]	● Front RH pre-tensioner circuit is shorted to a power supply circuit.	<ol style="list-style-type: none"> 2. Replace the harness if it has visible damage.
PRE-TEN FRONT RH [GND-SHORT]	● Front RH pre-tensioner circuit is shorted to ground.	<ol style="list-style-type: none"> 3. Replace the front RH seat belt. (Before disposal, it must be activated.)
PRE-TEN FRONT RH [SHORT]	● Front RH pre-tensioner circuit is shorted between lines.	<ol style="list-style-type: none"> 4. Replace the diagnosis sensor unit. 5. Replace the related harness.
CONTROL UNIT	● Diagnosis sensor unit is malfunctioning.	<ol style="list-style-type: none"> 1. Visually check the wiring harness connection. 2. Replace the diagnosis sensor unit.

NOTE:

- Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using 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.
- Follow the procedure in numerical order when repairing malfunctioning parts, then make the system check.
- The screen contents are the same as the self-diagnosis results, "self-diagnosis results "SELF-DIAG [CURRENT]" and "SELF-DIAG [PAST]".

TROUBLE DIAGNOSIS

Trouble Diagnoses Without CONSULT-II DIAGNOSTIC PROCEDURE 4

EHS0000A

CAUTION:

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 7seconds, turn ignition switch “OFF” within 1seconds.
3. Wait more than 3 seconds.
4. Repeat the steps 1 to 3 two times.
5. Turn ignition switch ON”.
6. Compare the number of flashes to Air Bag Warning Lamp Flash Code.
7. Turn the ignition switch OFF, and disconnect both battery cables.
8. Repair the system as outlined by the “REPAIR ORDER” in “Warning Lamp Flash Code Chart” that corresponds to flash code.
9. After the repairing of malfunction, connect both battery cables, and turn the ignition switch ON.
10. Check that no malfunction is detected.

A

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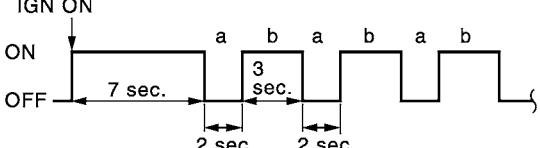
L

M

TROUBLE DIAGNOSIS

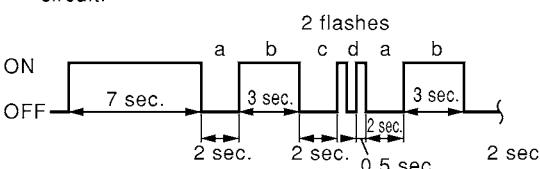
WARNING LAMP FLASH CODE CHART

<Diagnosis results (previously stored in the memory) might not be erased after repair or intermittent malfunctions have been detected in the past.>

Flash pattern	Repair order
<p>a through b are repeated.</p> 	<p>1. Go to DIAGNOSTIC PROCEDURES 3.</p>

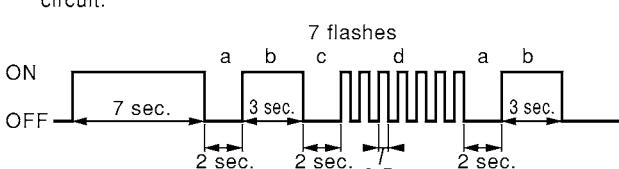
PHIA0254E

<Driver air bag module>

Flash pattern	Repair order
<p>a through d are repeated.</p> <p>d: One flash indicates malfunctioning driver air bag module circuit.</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 air bag module. (Before disposal, it must be deployed.) 5. Replace the diagnosis sensor unit. 6. Replace the related harness.

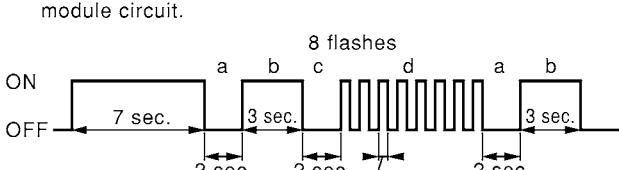
SHIA0027E

<Diagnosis sensor unit>

Flash pattern	Repair order
<p>a through d are repeated.</p> <p>d: Seven flashes indicate malfunctioning diagnosis sensor unit circuit.</p> 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace the diagnosis sensor unit. 4. Replace the related harness.

SHIA0028E

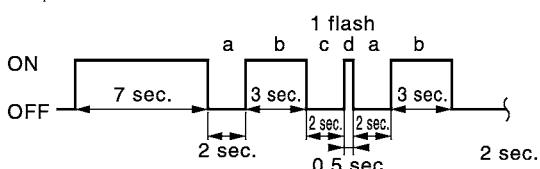
<Front passenger air bag module>

Flash pattern	Repair order
<p>a through d are repeated.</p> <p>d: Eight flashes indicate malfunctioning front passenger air bag module circuit.</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 front passenger air bag module. (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.

SHIA0029E

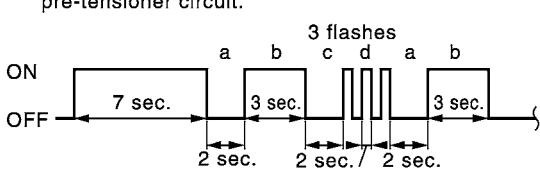
TROUBLE DIAGNOSIS

<Front RH seat belt pre-tensioner>

Flash pattern	Repair order
<p>a through d are repeated. d: One flash indicates malfunctioning front RH seat belt pre-tensioner circuit.</p> 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace front RH seat belt pre-tensioner. (Before disposal, it must be activated.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.

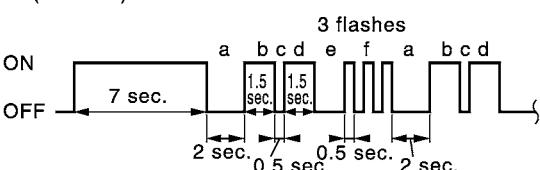
SHIA0030E

<Front LH seat belt pre-tensioner>

Flash pattern	Repair order
<p>a through d are repeated. d: Three flashes indicate malfunctioning front LH seat belt pre-tensioner circuit.</p> 	<ol style="list-style-type: none"> 1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace front LH seat belt pre-tensioner. (Before disposal, it must be activated.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.

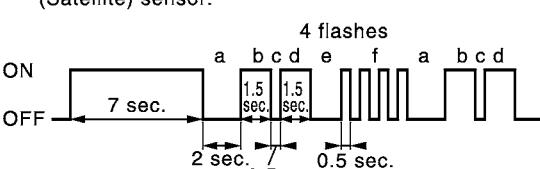
SHIA0031E

<RH side air bag (Satellite) sensor>

Flash pattern	Repair order
<p>a through f are repeated. f: Three flashes indicate malfunctioning RH side air bag (Satellite) sensor circuit.</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 RH side air bag (Satellite) sensor. 4. Replace the diagnosis sensor unit. 5. Replace the related harness.

SHIA0032E

<LH side air bag (Satellite) sensor>

Flash pattern	Repair order
<p>a through f are repeated. f: Four flashes indicate malfunctioning LH side air bag (Satellite) sensor.</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 LH side air bag (Satellite) sensor. 4. Replace the diagnosis sensor unit. 5. Replace the related harness.

SHIA0033E

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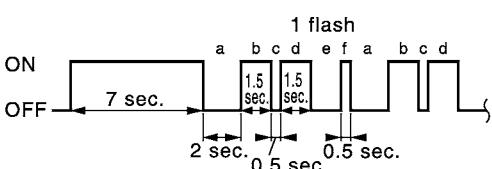
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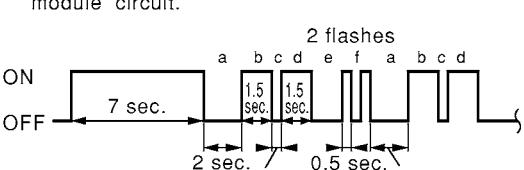
TROUBLE DIAGNOSIS

<Front RH side air bag module>

Flash pattern	Repair order
<p>a through f are repeated. f: One flash indicate malfunctioning front RH side air bag module circuit.</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 front RH side air bag module. (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.

SHIA0034E

<Front LH side air bag module>

Flash pattern	Repair order
<p>a through f are repeated. f: Two flashes indicate malfunctioning front LH side air bag module circuit.</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 front LH side air bag module. (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.

SHIA0035E

TROUBLE DIAGNOSIS

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

DIAGNOSTIC PROCEDURE 5

EHS0000B

1. SEE THE DEPLOYMENT OF AIR BAG MODULE

Is air bag module deployed?

Yes or No

Yes >> Refer to [SRS-47, "COLLISION DIAGNOSIS"](#) .

No >> GO TO 2.

2. CHECK THE AIR BAG FUSE

Check the fuse (No. 9).

Refer to [PG-2, "POWER SUPPLY ROUTING"](#) .

OK or NG

OK >> GO TO 4.

NG >> GO TO 3.

3. CHECK AIR BAG FUSE AGAIN

Replace "AIR BAG" fuse and turn ignition switch ON.

Is "AIR BAG" fuse blown again?

Yes >> Repair main harness.

No >> **INSPECTION END**

4. CHECK DIAGNOSIS SENSOR UNIT



Connect CONSULT-II and touch "START".

- Is "AIR BAG" displayed on CONSULT-II?

Yes or No

Yes >> GO TO 5.

No >> Visually check the wiring harness connection of diagnosis sensor unit. If the harness connection check result is OK, replace diagnosis sensor unit.

SELECT SYSTEM
ENGINE
A/T
AIR BAG

SRS771

5. CHECK HARNESS CONNECTION

Is harness connection between warning lamp and diagnosis sensor unit OK?

OK or NG

OK >> Replace diagnosis sensor unit.

NG >> Connect "AIR BAG" warning lamp and diagnosis sensor unit connector properly. If "AIR BAG" warning lamp still does not go off, replace harness.

A

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SRS

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TROUBLE DIAGNOSIS

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

DIAGNOSTIC PROCEDURE 6

EHS0000C

1. CHECK "METER" FUSE

Check the "METER" fuse (No. 11).

Refer to PG-2, "POWER SUPPLY ROUTING".

OK or NG

OK >> GO TO 3.
NG >> GO TO 2.

2. CHECK "METER" FUSE AGAIN

Replace meter fuse and turn ignition switch ON.

Is meter fuse blown again?

Yes >> Repair the related harness.
No >> **INSPECTION END**

3. CHECK HARNESS CONNECTION BETWEEN DIAGNOSIS SENSOR UNIT AND COMBINATION METER

Disconnect diagnosis sensor unit connector and turn ignition switch "ON".

- Does "AIR BAG" warning lamp turn on?

Yes or No

Yes >> Replace diagnosis sensor unit.
No >> Check the ground circuit of "AIR BAG" warning lamp.

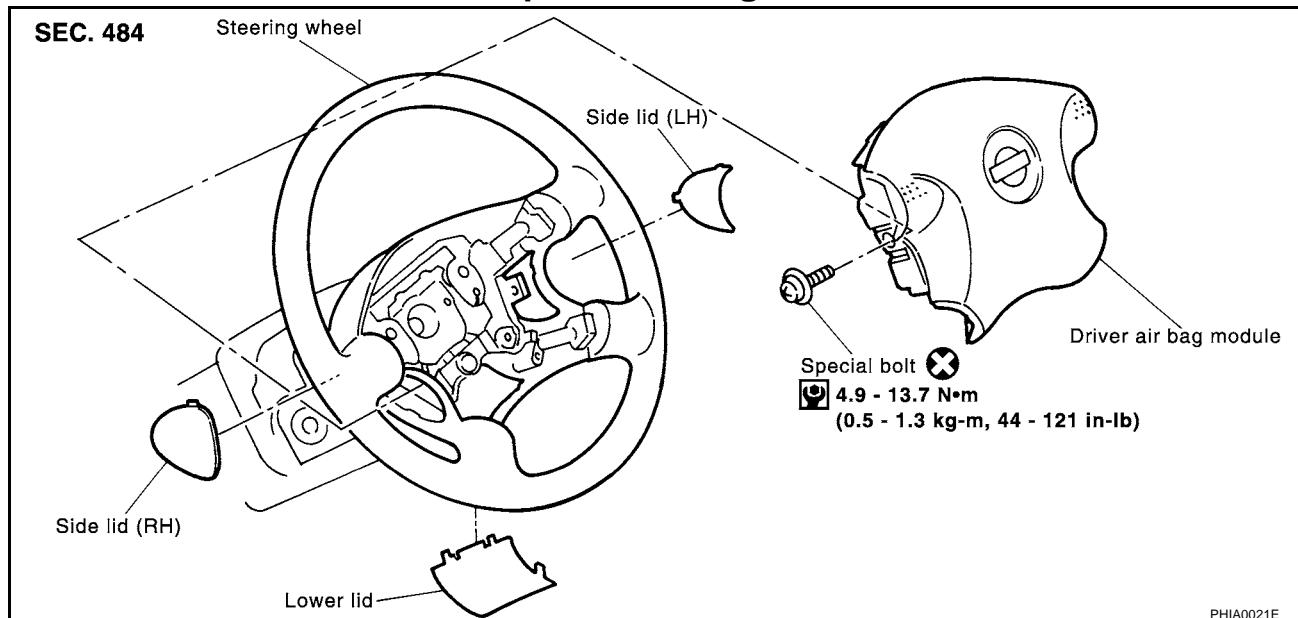
DRIVER AIR BAG MODULE

DRIVER AIR BAG MODULE

PFP:K8510

Removal and Installation/With 4-Spoke Steering Wheel

EHS000D7



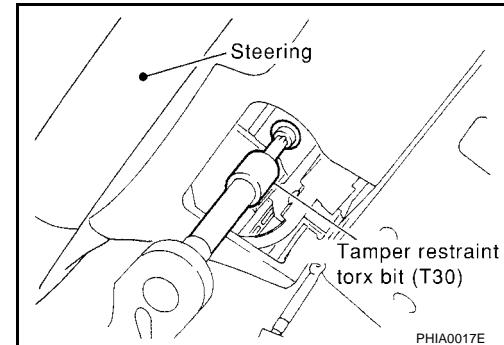
REMOVAL

CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of driver air bag module.

- Remove the side lids. Using Tamper resistant TORX socket (T30), remove the special bolts at right and left.

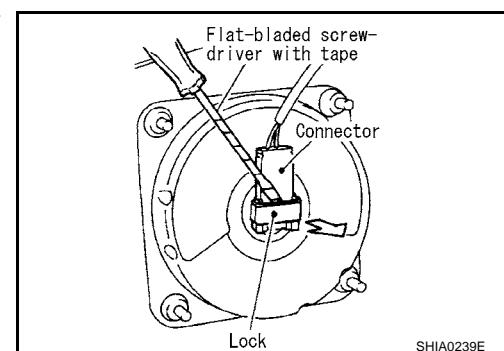
SRS



- Disconnect the air bag harness connector. Then remove driver air bag module.

CAUTION:

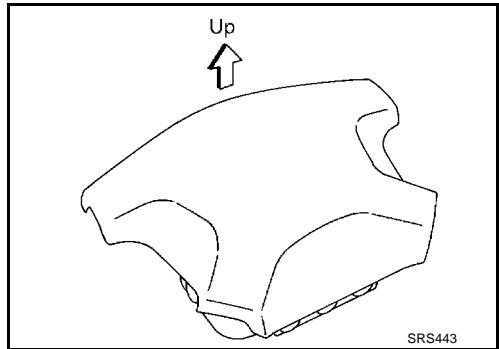
When removal of driver air bag module connector, insert the lock using flat bladed screw driver with cloth. Then push up the lock,



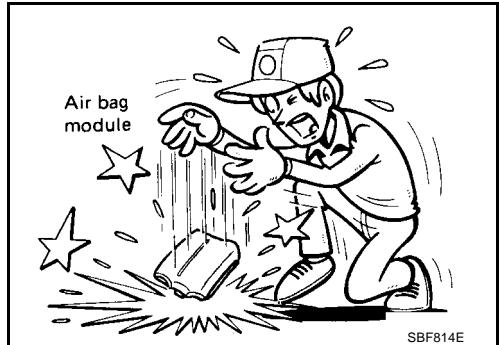
DRIVER AIR BAG MODULE

CAUTION:

- Always work from the side of driver air bag module.
- Always place driver air bag module with pad side facing upward.
- Do not insert any foreign objects (screwdriver, etc.) into driver air bag module.
- Do not attempt to disassemble driver air bag module.
- Do not use old bolts after removal; replace with new bolts.



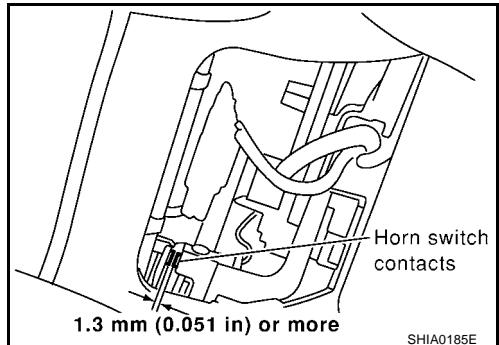
- Do not expose the driver air bag module to temperatures exceeding 90°C(194°F).
- Replace air bag module if it has been dropped or sustained an impact.
- Do not allow oil, grease or water to come in contact with the front passenger air bag module.



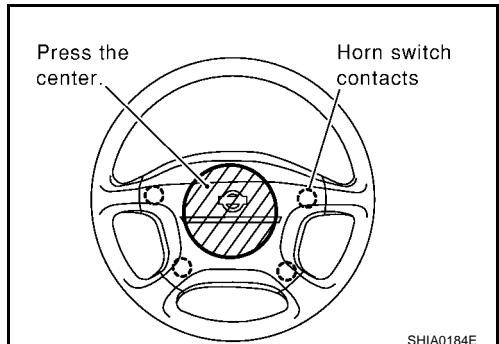
INSTALLATION

To install, reverse the removal procedure sequence.

- After installing the air bag module, check that the contact clearance of the horn switch is in the specified range in the right.

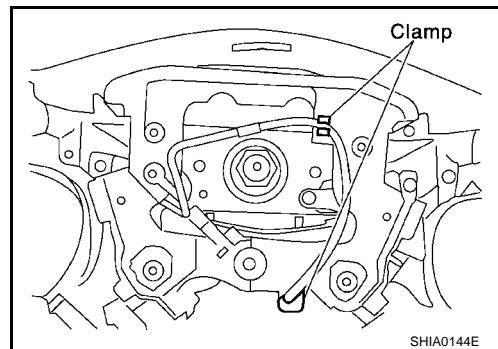


- For installing the air bag module, tighten the special bolts with the center of the horn pad pressed to make the contacts (RH/LH) ON.



DRIVER AIR BAG MODULE

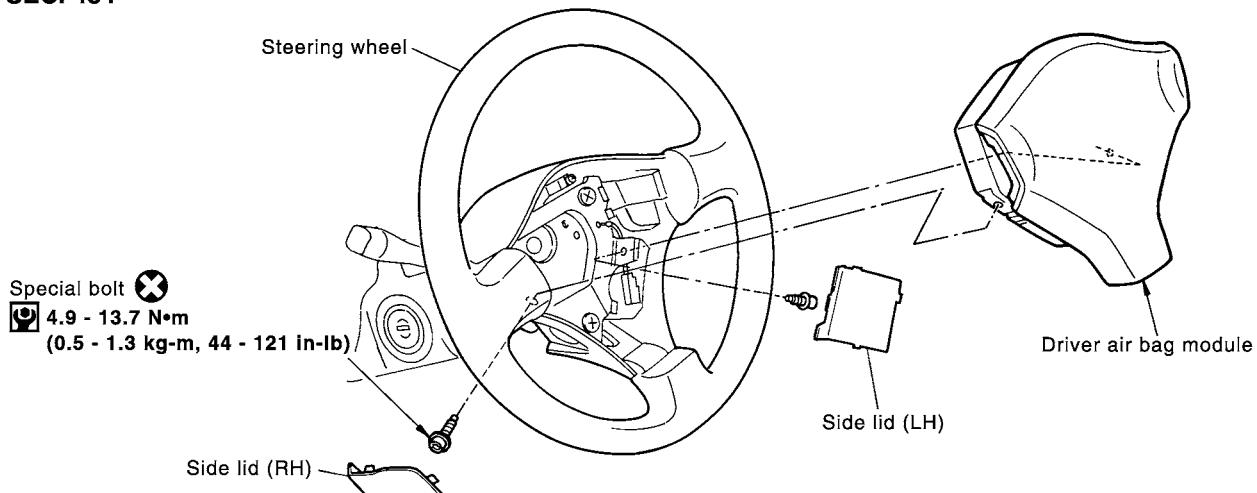
- When installing driver air bag module, fix driver air bag module harness and harness connector to clip.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-16, "SRS Operation Check"](#).



EHS000DH

Removal and Installation/With 3-Spoke Steering Wheel

SEC. 484



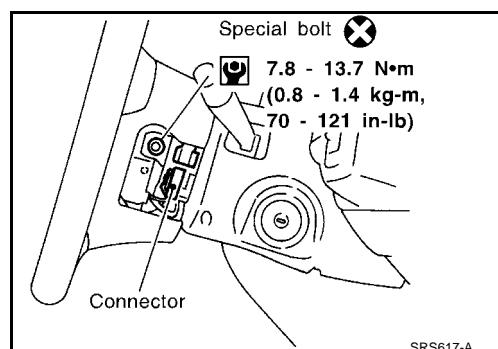
PHIA0022E

REMOVAL

CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect battery ground cable and wait at least 3 minutes.
- Always work from the side of driver air bag module.

- Remove the side lids. Using Tamper resistant TORX socket (T30), remove the special bolts at right and left.



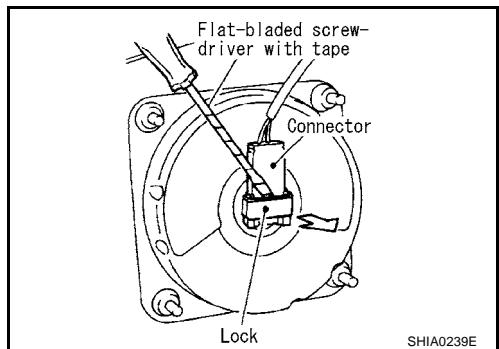
SRS617-A

DRIVER AIR BAG MODULE

2. Disconnect the air bag harness connector. Then remove driver air bag module.

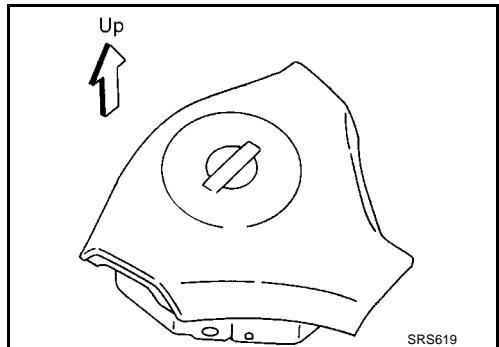
CAUTION:

When removal of driver air bag module, insert the lock using flat bladed screw driver with cloth. Then push up the lock,



CAUTION:

- Always work from the side of driver air bag module.
- Always place driver air bag module with pad side facing upward.
- Do not insert any foreign objects (screwdriver, etc.) into driver air bag module.
- Do not attempt to disassemble driver air bag module.
- Do not use old bolts after removal; replace with new bolts.



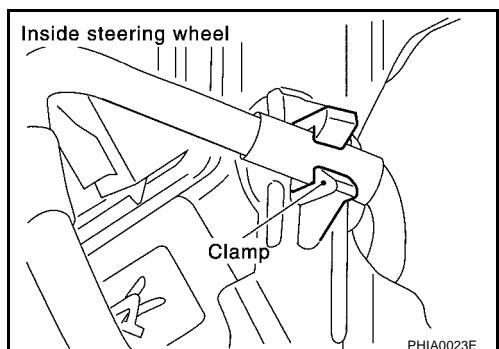
- Do not expose the driver air bag module to temperatures exceeding 90°C(194°F).
- Replace driver air bag module if it has been dropped or sustained an impact.
- Do not allow oil, grease or water to come in contact with the front passenger air bag module.



INSTALLATION

To install, reverse the removal procedure sequence.

- When installing driver air bag module, fix driver air bag module harness and harness connector to clip.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-16, "SRS Operation Check"](#).



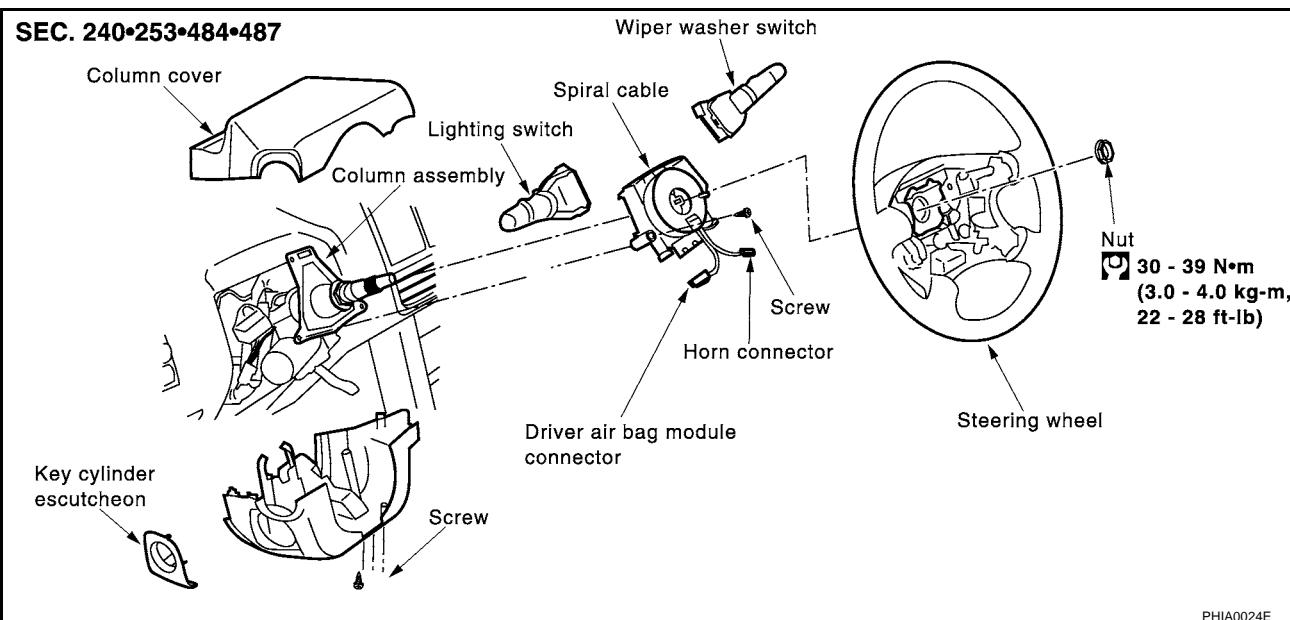
SPIRAL CABLE

SPIRAL CABLE

PFP:25554

Removal and Installation

EHS000D8



REMOVAL

CAUTION:

SRS

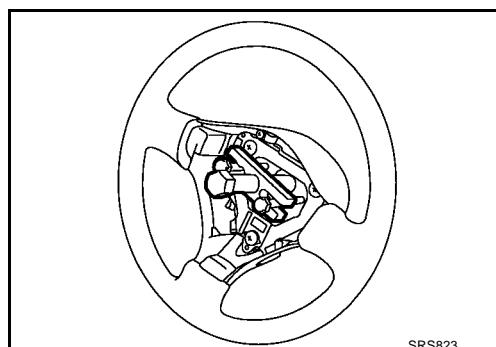
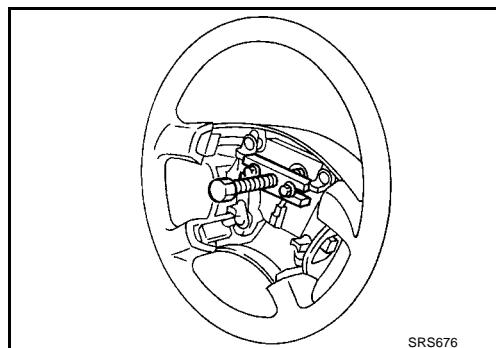
- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.

- Remove driver air bag module. Refer to [SRS-29, "Removal and Installation/With 4-Spoke Steering Wheel"](#) or [SRS-31, "Removal and Installation/With 3-Spoke Steering Wheel"](#).
- Set the steering wheel in the neutral position.
- Remove the column cover. Refer to [IP-3, "INSTRUMENT PANEL ASSEMBLY"](#).
- Disconnect the horn connector and the driver air bag module connector.

CAUTION:

Do not tap or bump the steering wheel.

- Remove steering wheel with steering wheel puller. Be careful not to over-tighten puller on steering wheel.



SPIRAL CABLE

6. Remove the spiral cable fixing screws, and while pushing the upper plastic tab, remove the spiral cable.

CAUTION:

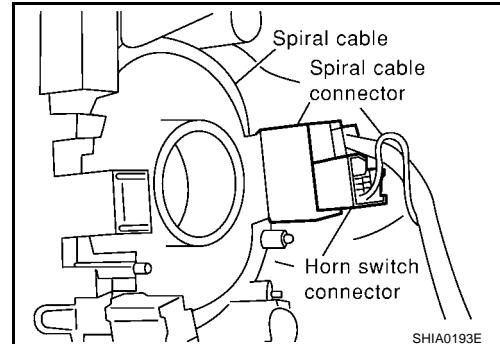
- Do not attempt to disassemble spiral cable.
- Do not apply lubricant to the spiral cable.

7. Remove the wiper washer switch and lighting switch from the spiral cable.

8. Remove the horn switch connector and then the spiral cable connector.

CAUTION:

- Also, with the steering linkage disconnectedly cable may snap by turning the steering wheel beyond the limited number of turns. The spiral cable can be turned to the left about 2.5turns from the right end position.

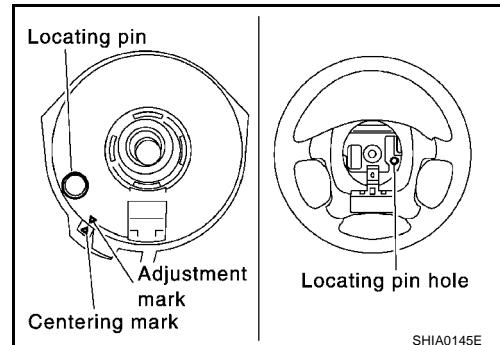


INSTALLATION

To install, reverse the removal procedure sequence.

CAUTION:

- The spiral cable may snap due to steering operation if the cable is installed in an improper position.
- Also, with the steering linkage disconnectedly cable may snap by turning the steering wheel beyond the limited number of turns. The spiral cable can be turned to the left about 2.5turns from the right end position.



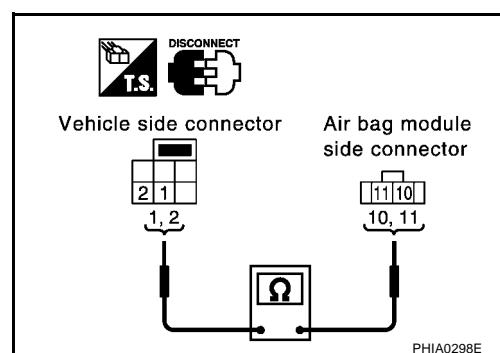
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-16, "SRS Operation Check"](#)

Components Inspection

EHS000DI

1. Remove spiral cable connectors.
2. Check continuity between spiral cable harness connector M10 terminal 1,2 and M101 terminal 1,2.

1 – 10	: Continuity should exist.
2 – 11	



FRONT PASSENGER AIR BAG MODULE

FRONT PASSENGER AIR BAG MODULE

PFP:K8515

Removal and Installation

REMOVAL

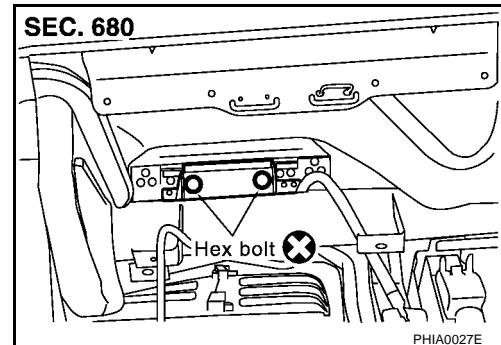
EHS000D9

CAUTION:

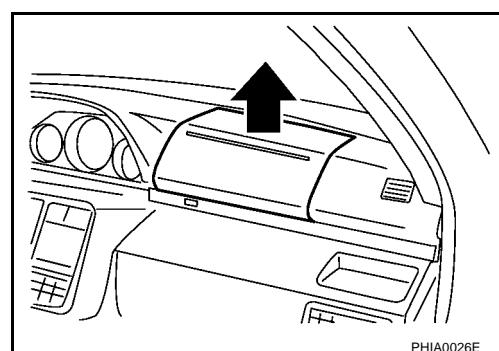
- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of or under front passenger air bag module.

- Remove the glove box. Refer to [IP-3, "INSTRUMENT PANEL ASSEMBLY"](#) .
- Disconnect the front passenger air bag harness connector.
- Remove front passenger air bag fixing bolts

 19.6-29.4N·m (2.0 - 3.0kg·m, 15 - 21ft·lb)



- Pull front passenger air bag module upward. Then remove front passenger air bag module from instrument panel.



CAUTION:

- Always place front passenger air bag module with warning label side facing upward.
- Do not insert any foreign objects (screwdriver, etc.) into front passenger air bag module.
- Do not attempt to disassemble front passenger air bag module.
- Do not use old bolts after removal; replace with new bolts.
- Replace front passenger air bag module if it has been dropped or sustained an impact.
- Do not expose the front passenger air bag module to temperatures exceeding 90°C(194°F).
- Do not allow oil, grease or water to come in contact with the front passenger air bag module.
- After front passenger air bag module inflates, the instrument panel assembly should be replaced.



INSTALLATION

To install, reverse the removal procedure.

CAUTION:

- Always work from the side of or under front passenger air bag module.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-16, "SRS Operation Check"](#) .

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FRONT SIDE AIR BAG MODULE

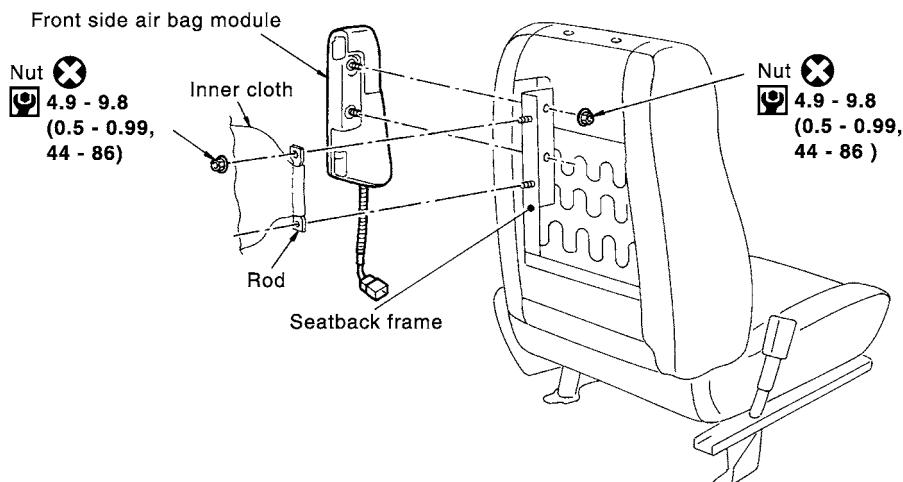
FRONT SIDE AIR BAG MODULE

PFP:K8EH0

Removal and Installation

EHS000DA

SEC. 870



: N·m (kg·m, in·lb)

PHIA0028E

REMOVAL

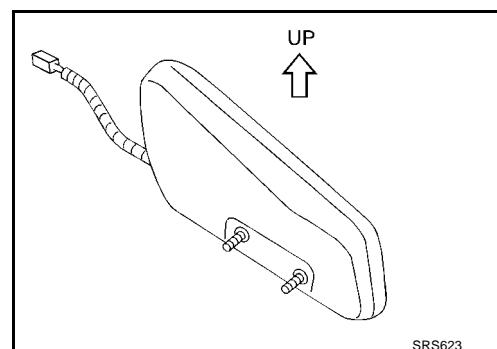
CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the rear of the front side air bag module.

- Pull up the seat back trim.
- Remove the nuts securing the inner cloth with seat back frame. Then pull up the inner cloth.
- Remove the side air bag module fixing nuts, and remove the front side air bag module.

CAUTION:

- When using a clip removal tool to remove the seat back board, take care not to damage the harness for front side air bag module.
- Always place the front side air bag module standing with the stud bolt side setting bottom.
- Do not insert any foreign objects (screwdrivers) into front side air bag module
- Do not attempt to disassemble front side air bag module.



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



SBF814E

INSTALLATION

To install, reverse the removal procedure.

FRONT SIDE AIR BAG MODULE

CAUTION:

- Always work from the rear of the front side air bag module.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-16, "SRS Operation Check"](#).

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SIDE AIR BAG (SATELLITE) SENSOR

PFP:98830

Removal and Installation

REMOVAL

EHS000DB

CAUTION:

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

- Remove seat belt pre-tensioner seat belt. Refer to [SB-3, "Removal and Installation of Front Seat Belt"](#).
- Remove side air bag (Satellite) sensor fixing nuts.
- Remove the side air bag (Satellite) sensor connector.

CAUTION:

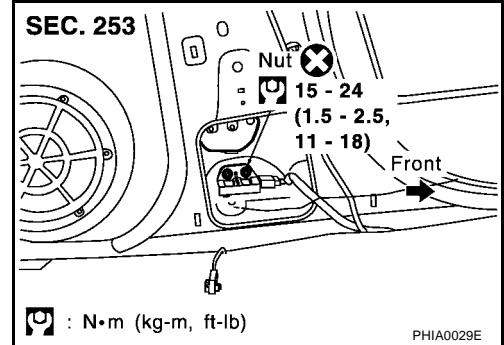
- Do not use old nuts, replace with new ones.
- Check side air bag (Satellite) sensor to ensure they are free of deformities, dents, cracks or rust. If it shows any visible signs of damage, replace it with new one.
- Do not attempt to disassemble side air bag (Satellite) sensor.
- Replace side air bag (Satellite) sensor if it has been dropped or sustained an impact.
- When the front side air bag deploys, always replace it with a new one.

INSTALLATION

To install, reverse the removal procedure sequence.

CAUTION:

- Check side air bag (Satellite) sensor for proper installation.
- After replacement of side air bag (Satellite) sensor, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-16, "SRS Operation Check"](#).



FRONT SEAT BELT PRE-TENSIONER

FRONT SEAT BELT PRE-TENSIONER

PFP:86884

Removal and Installation

EHS000DC

To removal and installation procedures, refer to [SB-3, "Removal and Installation of Front Seat Belt".](#)

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DIAGNOSIS SENSOR UNIT

PFP:28556

Removal and Installation

REMOVAL

EHS000DD

CAUTION:

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

- Remove center console. Refer to [IP-3, "INSTRUMENT PANEL ASSEMBLY"](#).
- Disconnect diagnosis sensor unit connector.
- Remove ground bolt and diagnosis sensor unit fixing bolts.

CAUTION:

- Do not use old bolts. Replace with new ones.
- Check diagnosis sensor unit brackets to ensure it is free of deformities, dents, cracks or rust. If it shows any visible signs of damage, replace it with new one.
- Replace diagnosis sensor unit if it has been dropped or sustained an impact.

INSTALLATION

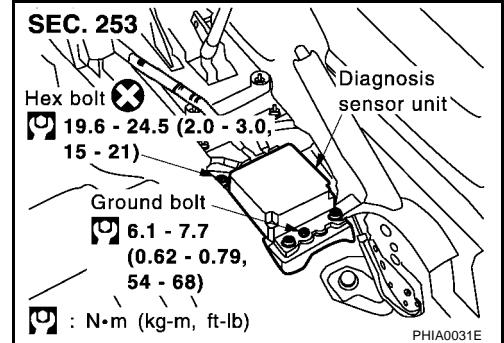
To install, reverse the removal procedure sequence.

CAUTION:

- Check the diagnosis sensor unit for proper installation.
- After replacement of diagnosis sensor unit, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-16, "SRS Operation Check"](#).

ECU DISCRIMINATED NO.

For NISSAN MODEL T30, the diagnosis sensor unit classification numbers assigned are AA12(without front side air bag) and AA01(with front side air bag).



DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

PFP:00014

Caution for Air Bag Module and Seat Belt Pre-tensioner

EHS000DE

- Before disposing of air bag module and seat belt pre-tensioner, or vehicles equipped with such systems, deploy the systems. If such systems have already been deployed due to an accident, dispose of them as indicated in [SRS-46, "DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER"](#)
- 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 the deployment component.
- When deploying air bag module and seat belt pre-tensioner, a fairly loud noise is made, followed by smoke being released. The smoke is not poisonous, however, be careful not to inhale smoke since it irritates the throat and can cause choking.
- Always activate one air bag module at a time.
- Due to heat, leave air bag module unattended for more than 30 minutes after deployment. Also leave seat belt pre-tensioner unattended for 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 the deployed air bag module and seat belt pre-tensioner.
- Wash your hands clean after finishing work.
- Place the vehicle outdoors with an open space of at least 6 m (20 ft) on all sides when deploying air bag module and seat belt pre-tensioner while mounted in vehicle.
- Use a voltmeter to make sure the vehicle battery is fully charged.
- Do not dispose of the air bag module and seat belt pre-tensioner un-deployed.

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CHECKING DEPLOYMENT TOOL

Connecting To Battery

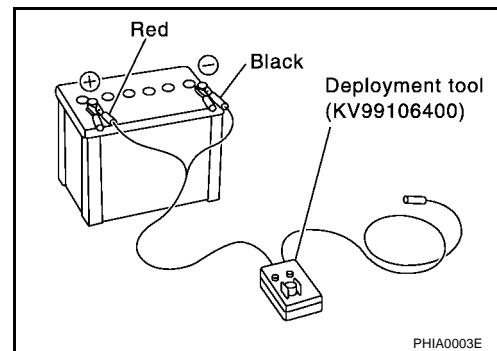
CAUTION:

The battery must show voltage of 9.6V or more.

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

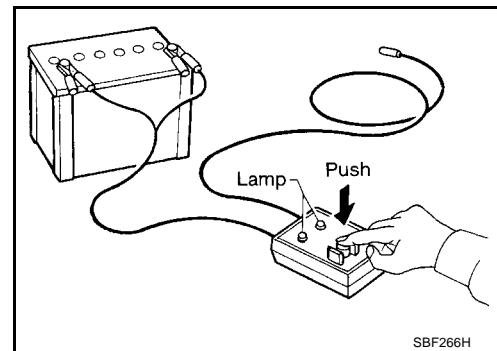
- Wait 3 minutes after the vehicle battery is disconnected before proceeding.
- Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.

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



Deployment Tool Check

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



DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Air Bag Deployment Tool Lamp Illumination Chart (Battery Connected)

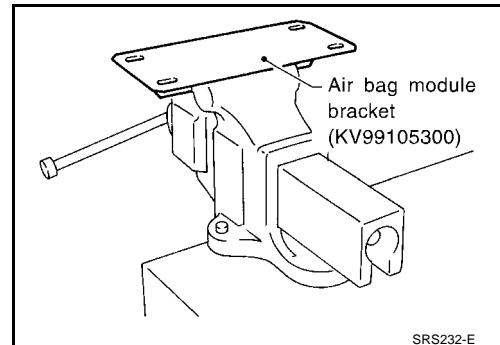
Switch operation	Left side lamp, green* "AIR BAG CONNECTOR VOLTAGE"	Right side lamp, green* "DEPLOYMENT TOOL POWER"
OFF	OFF	ON
ON	ON	ON

*: 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 in the vehicle is not recommended. This may cause damage to the vehicle interior.

Anchor air bag module bracket (SST:KV99105300) in a vise secured to a firm foundation during deployment.



SRS232-E

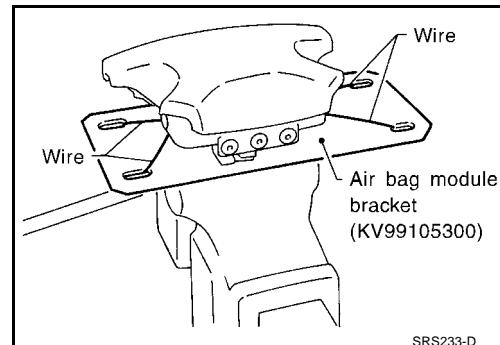
Deployment Of Driver Air Bag Module (Outside Of Vehicle)

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

CAUTION:

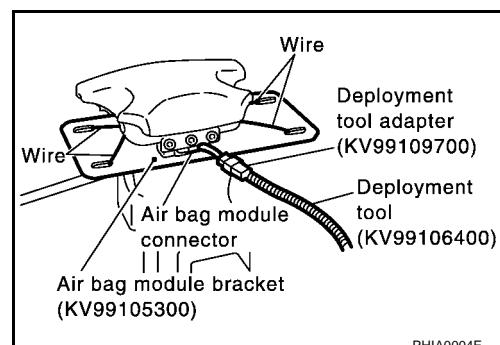
Use wire of at least 1 mm (0.04 in) diameter.

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



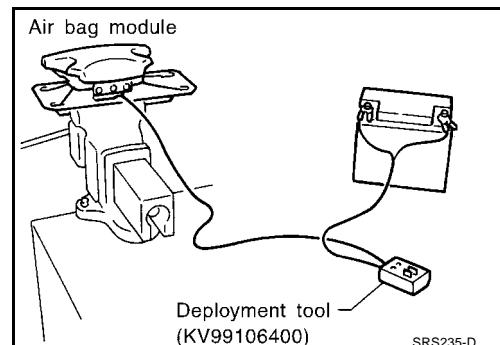
SRS233-D

3. Connect deployment tool adapter (KV99109700) to deployment tool (SST: KV99106400 (J38381)] to air bag module connector.



PHIA0004E

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



SRS235-D

DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

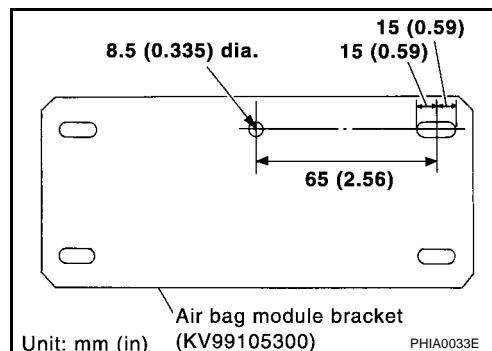
5. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
6. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module will deploy.

CAUTION:

When deploying the driver 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)

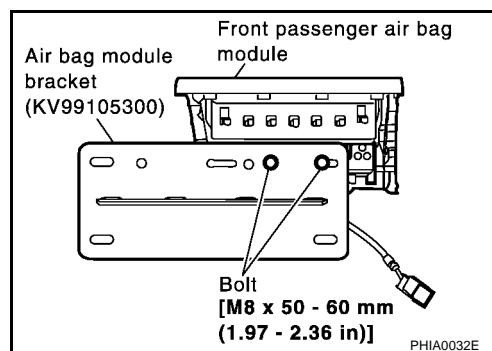
1. Make an 8.5 mm (0.335 in) diameter hole in air bag module bracket (SST: KV99105300) at the position shown in figure at right.
2. Firmly secure air bag module bracket (SST: KV99105300) in a vise.



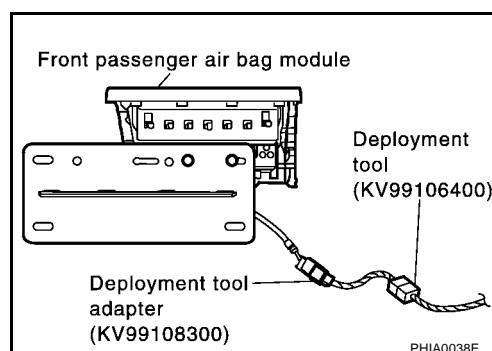
3. Match the two holes in air bag module bracket (held in vise) and front passenger air bag module and fix them with two bolts [M8 x 25 - 30 mm (0.98 - 1.18 in)].

CAUTION:

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



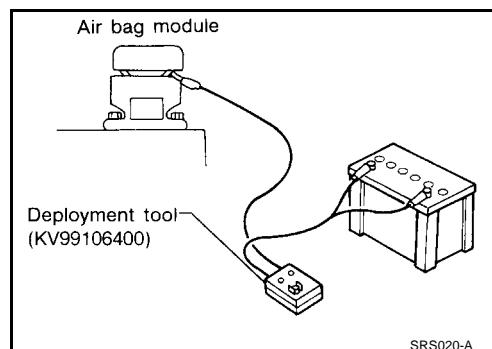
4. Connect deployment tool adapter (KV99108300) to deployment tool (SST: KV99106400) connector and front passenger air bag module connector.
5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.



7. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module will deploy.

CAUTION:

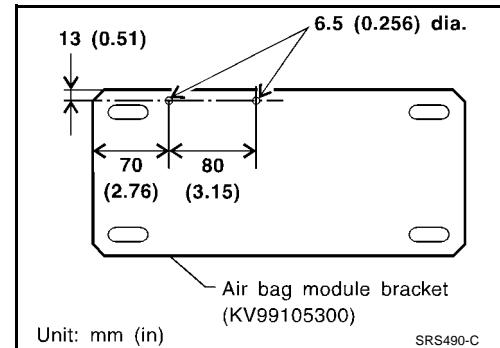
- When deploying the front passenger air bag module, do not stand on the deploying side.
- Stand at least 5 m (16 ft) away from the air bag module.



DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployment Of Front Side Air Bag Module (Outside Of Vehicle)

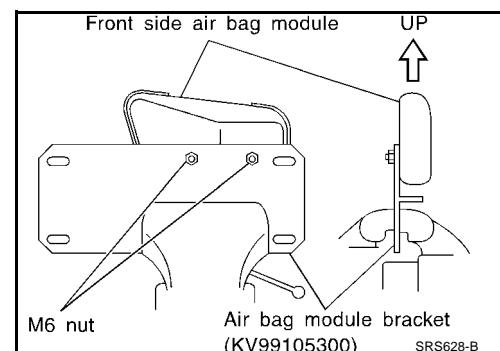
1. Make 6.5 mm (0.256 in) diameter holes in air bag module bracket (SST: KV99105300) at the position shown in figure at left.



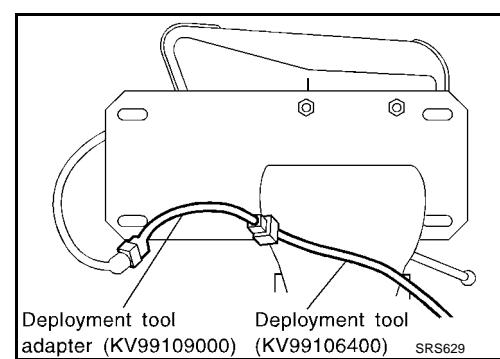
2. Firmly secure air bag module bracket (SST: KV99105300) in a vise.
3. Insert the stud bolts of side air bag module into the two holes in air bag module bracket (held in vise) and fix them with two M6 nuts.

CAUTION:

Side air bag module should be secured to air bag module bracket (SST: KV99105300) in a vise with stud bolt side setting bottom.



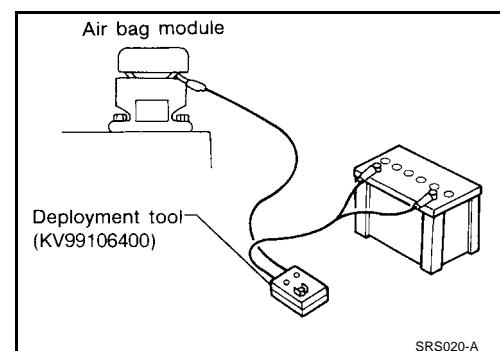
4. Connect deployment tool adapter (SST: KV99109000) to deployment tool (SST: KV99106400) connector and connector on air bag module.



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:

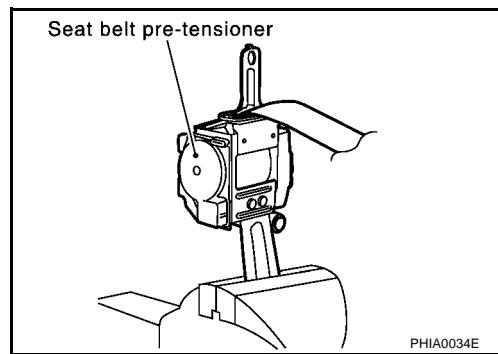
When deploying the front side air bag module, stand at least 5 m (16 ft) away from the air bag module.



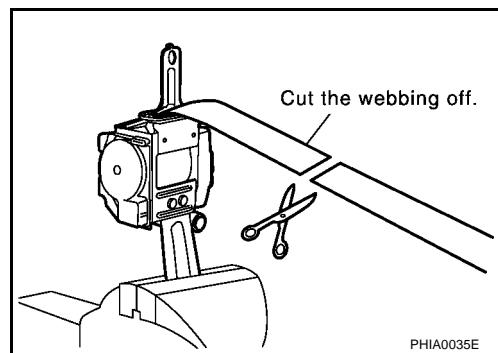
DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

DEPLOYMENT PROCEDURES FOR SEAT BELT PRE-TENSIONER (OUTSIDE OF VEHICLE)

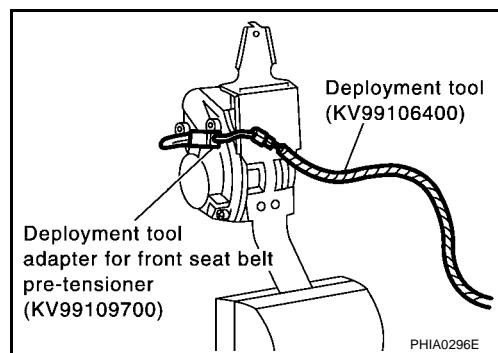
1. Firmly grip pre-tensioner in a vise.



2. Cut the webbing off.



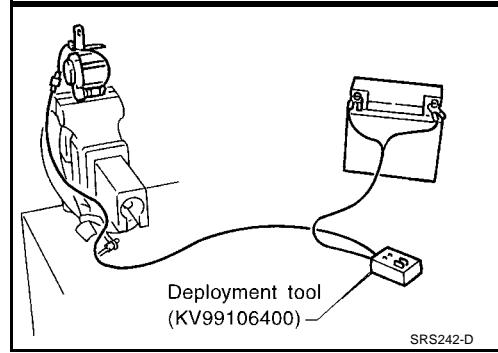
3. Connect deployment tool adapter (SST: KV99108200) to deployment tool (SST: KV991056400) connector and front seat belt pre-tensioner.



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 front seat belt pre-tensioner, 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 module and seat belt pre-tensioners while they are mounted in vehicle.

CAUTION:

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

1. Disconnect both the battery cables and wait 3 minutes.
2. Disconnect air bag module and seat belt pre-tensioner connector.
3. Connect deployment tool (SST: KV99106400) to air bag module or seat belt pre-tensioner. For driver air bag module, attach deployment tool adapter (SST: KV99109700) to the tool connector.

DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

For front passenger air bag module, attach deployment tool adapter(SST:KV99108300)to the tool connector.

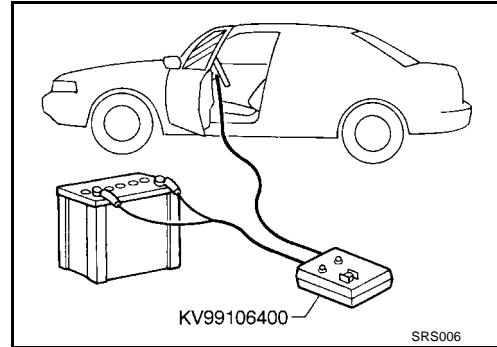
For side air bag module, attach deployment tool adapter (SST: KV99109000) to the tool connector.

For seat belt pre-tensioner, attach deployment tool adapter (SST: KV99109700)to the tool connector.

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

CAUTION:

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

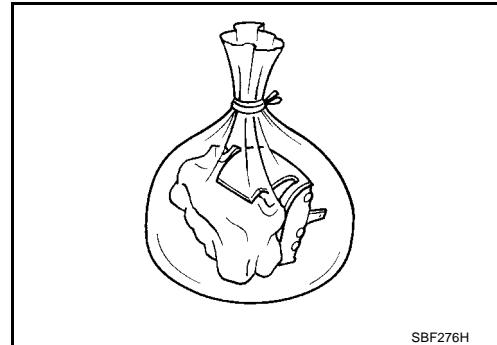


DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag module and seat belt pre-tensioner 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 reused.
- Wash your hands clean after finishing work.



SBF276H

COLLISION DIAGNOSIS

COLLISION DIAGNOSIS

PFP:00015

For Frontal Collision

EHS000DF

A

To repair the SRS, perform the following steps.

B

WHEN SRS (EXCEPT THE FRONT SIDE AIR BAG) IS ACTIVATED IN A COLLISION:

C

1. Replace the diagnosis sensor unit.
2. Remove the air bag modules (except the front side air bag module), bracket and seat belt pre-tensioner assemblies.
3. Check the SRS components using the table shown below:
 - Replace any SRS components showing visible signs of damage (dents, cracks and deformation).
4. Install new air bag modules (except the front side air bag module) and seat belt pre-tensioner assemblies.
5. Conduct self-diagnosis using CONSULT-II or “AIR BAG” warning lamp. Refer to [SRS-16, "SRS Operation Check"](#) for details. Ensure entire SRS operation properly.

D

E

WHEN SRS IS NOT ACTIVATED IN A COLLISION:

F

1. Check the SRS components using the table shown below:
 - Replace any SRS components showing visible signs of damage (dents, cracks and deformation).
2. Conduct self-diagnosis using CONSULT-II or “AIR BAG” warning lamp. Refer to [SRS-16, "SRS Operation Check"](#) for details. Ensure entire SRS operation properly.

G

SRS INSPECTION (FOR FRONTAL COLLISION)

SRS

Part	SRS is activated	SRS is NOT activated
Air bag module (driver or front passenger air bag module)	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.<ul style="list-style-type: none">– Install driver air bag module into the steering wheel to check fit and alignment with the wheel.– Install passenger air bag module into the instrument panel to check fit with the instrument panel.3. No damage found, reinstall with new bolts.4. If damaged—REPLACE. Install air bag modules with new special bolts Air bag must be deployed before discarding.
Seat belt pre-tensioner assembly	REPLACE Install seat belt pre-tensioner with new bolts.	<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 seat belt pre-tensioner assembly.5. If damaged—REPLACE. Install the seat belt pre-tensioners with new bolts. Seat belt pre-tensioners must be deployed before discarding.
Diagnosis sensor unit	REPLACE Install with new bolts.	<ol style="list-style-type: none">1. Check case for dents, cracks or deformities.2. Check connectors for damage, and terminals for deformities.3. If no damage is found, reinstall with new bolts and ground bolt.4. If damaged—REPLACE. Install diagnosis sensor unit with new bolts and ground bolt.
Steering wheel		<ol style="list-style-type: none">1. Visually check steering wheel for deformities.2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.3. Install air bag module to check fit or alignment with steering wheel.4. Check steering wheel for excessive free play.5. If no damage is found, reinstall with bolts.6. If damaged—REPLACE.

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COLLISION DIAGNOSIS

Part	SRS is activated	SRS is NOT activated
Spiral cable	1. Visually check spiral cable and combination switch for damage. 2. Check connectors and protective tape for damage. 3. Check steering wheel for noise, binding or heavy operation. 4. If no damage is found, reinstall with bolts. 5. If damaged—REPLACE.	
Harness and Connectors	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 the harness and connectors. 4. Damaged—REPLACE damaged section of harness. Do not attempt to repair, splice or modify any SRS harness.	
Instrument panel	1. Visually check instrumental panel for damage. 2. If no damage is found, reinstall the instrument panel. 3. If damaged—REPLACE the instrument panel with bolts.	

For Side Collision

EHS000DG

WHEN THE SIDE AIR BAG IS ACTIVATED IN THE SIDE COLLISION:

1. Replace the following component:
 - All parts of front seat back (including front seat back frame) with front side air bag module (on the side on which front side air bag is activated)
 - Diagnosis sensor unit
 - Side air bag (Satellite) sensor
2. Check the SRS components and the related parts using the table shown below.
3. Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
4. Conduct self-diagnosis using CONSULT-II or “AIR BAG” warning lamp. Refer to [SRS-16, "SRS Operation Check"](#). Ensure entire SRS operation properly.

WHEN SRS IS NOT ACTIVATED IN THE SIDE COLLISION:

1. Check the SRS components and the related parts using the table shown below.
2. Replace any 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-16, "SRS Operation Check"](#). Ensure entire SRS operation properly.

COLLISION DIAGNOSIS

SRS INSPECTION (FOR SIDE COLLISION)

Part	Front side air bag and side curtain air bag is activated	Front side air bag and side curtain air bag is NOT activated
Front LH or RH side air bag module	REPLACE all parts of seat back with deployed front side air bag module.	<ol style="list-style-type: none"> Check for visible signs of damage (dents, tears, deformation) of the seat back on the collision side. If damaged—REPLACE the damaged seat parts with new bolts and remove the front side air bag module. Check for visible signs of damaged (tears etc.) of the front LH or RH side air bag module. Check harness and connectors for damage, and terminals for deformities. If no damage is found, reinstall the front LH or RH side air bag module with new nuts. If damaged—REPLACE the front LH or RH side air bag module with new nut. Air bag must be deployed before disposing of it.
LH or RH side air bag (Satellite) sensor	REPLACE the side air bag (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"> Remove the LH or RH side air bag (Satellite) sensor on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding. Check for visible signs of damage (dents, cracks, deformation) of the LH or RH side air bag (Satellite) sensor. Install the LH or RH side air bag (Satellite) sensor to check fit. If no damage is found, reinstall the LH or RH side air bag (Satellite) sensor with new nuts. If damaged—REPLACE the LH or RH side air bag (Satellite) sensor with new nuts.
Diagnosis sensor unit	REPLACE the diagnosis sensor unit with the new bolts.	<ol style="list-style-type: none"> Check case and bracket for dents, cracks or deformities. Check connectors for damage, and terminals for deformities. If no damage is found, reinstall the diagnosis sensor unit with new bolts and ground bolt. If damaged—REPLACE the diagnosis sensor unit with new bolts and ground bolt.
Seat belt pre-tensioner assembly	<ol style="list-style-type: none"> Check if the seat belt can be extended smoothly. If the seat belt cannot be extended smoothly, – Check for deformities of the center pillar inner. – If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. 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. Check for visible signs of damage (dents, cracks, deformation) of the seat belt pre-tensioner assembly. If no damage is found, reinstall the seat belt pre-tensioner assembly. If damaged—REPLACE the seat belt pre-tensioner assembly with new bolts. The seat belt pre-tensioner assembly must be deployed before disposing of it. 	
Seat with front side air bag	REPLACE all parts of front seat back (including front seat back frame)	<ol style="list-style-type: none"> Visually check the seat on the collision side. Remove the seat on the collision side and check the following for damage and deformities. – Harness, connectors and terminals – Frame and recliner (for front and rear seat), and also adjuster and slides (for front seat) If no damage is found, reinstall the seat. If damaged—REPLACE the damaged seat parts with new bolts.
Center pillar inner		<ol style="list-style-type: none"> Check the center pillar inner on the collision side for damage (dents, cracks, deformation). If damaged—REPAIR the center pillar inner.
Trim		<ol style="list-style-type: none"> Check for visible signs of damage (dents, cracks, deformation) of the interior trim on the collision side. If damaged—REPLACE the damaged trim parts.

COLLISION DIAGNOSIS
