SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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PRECAUTIONS

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a 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

- 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 battery ground cable and wait at least 3 minutes.

For approximately 3 minutes after the cables is 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

When you read wiring diagrams, refer to the following:

- GI-14, "How to Read Wiring Diagrams" in GI section
- <u>PG-3, "POWER SUPPLY ROUTING"</u> in PG section

When you perform trouble diagnosis, refer to the following:

- GI-11, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES" in GI section
- <u>GI-24, "How to Perform Efficient Diagnosis for an Electrical Incident"</u> in GI section

Check for any service bulletins before servicing the vehicle.

PREPARATION

PREPARATION **Special Service Tool**

HT61961000 and HT62152000

Tool number Tool name

combined *Special torx bit

KV99105300

KV99106400 Deployment tool

KV99109700

Air bag module bracket

PFP:00002

	EHS000ER
	Application
a total S-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)
S-NT354	Anchoring air bag module
S-NT357	Disposing of air bag module and front seat belt pre-tensioner
lin and the second s	 Connection between the deployment

tool and driver air bag module

• Connection between the deployment

• Connection between the deployment

tool and side curtain air bag module

Connection between the deployment

• Connection between the deployment

tool and front side air bag module

tool and front passenger air bag module

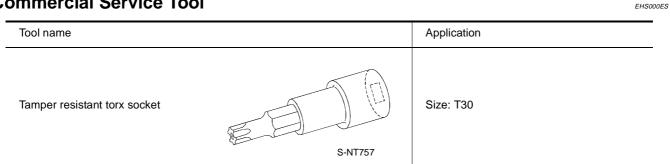
tool and front seat belt pre-tensioner

- Deployment tool adapter for driver air bag module
- Deployment tool adapter for front seatbelt pre-tensioner
- Deployment tool adapter for side curtain air bag

KV99108300

- Deployment tool adapter for front passenger air bag
- Deployment tool adapters for front side air bag

Commercial Service Tool



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ZZA1166D

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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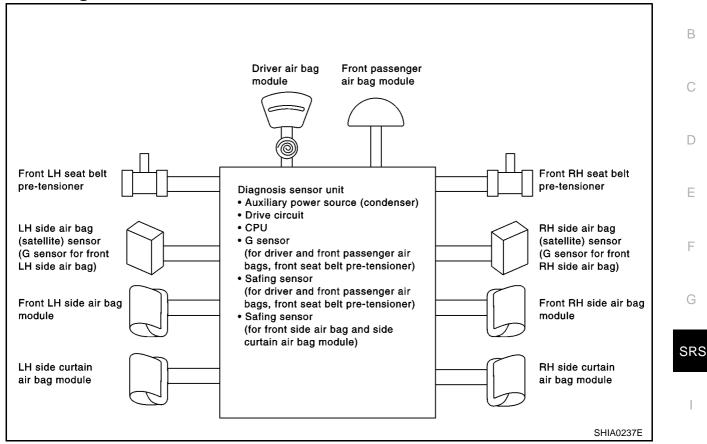
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SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

SRS Configuration



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 sys-Κ tems. 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	_	_	×
LH side curtain air bag module	_	×	—
RH side curtain air bag module	_	_	×

SRS-6

Front Seat Belt Pre-tensioner with Load Limiter

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.

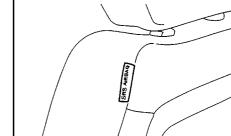
When the frontal collision with an impact exceeding a specified level occurs, seat belt slack resulting from clothing or other factors is immediately taken up by the pre-tensioner. Vehicle passengers are securely restrained.

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.

Front Side Air Bag

Front side air bag is built-in type.

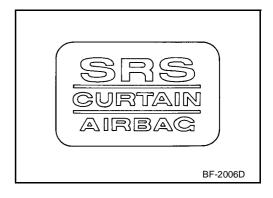
The front seatbacks with built-in type side air bag have the labels shown in figure at right.

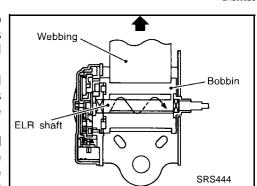


Front seatback with front side air bag

Side Curtain Air Bag

The side curtain air bag have the labels shown in figure at right.





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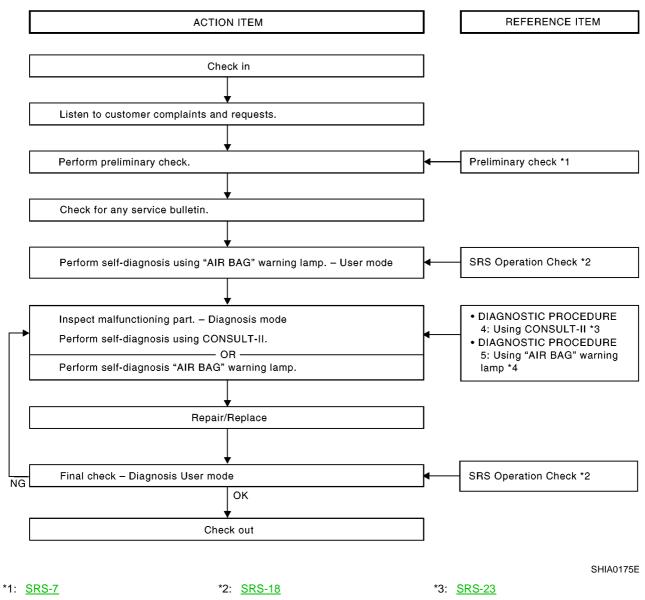
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EHS000EU

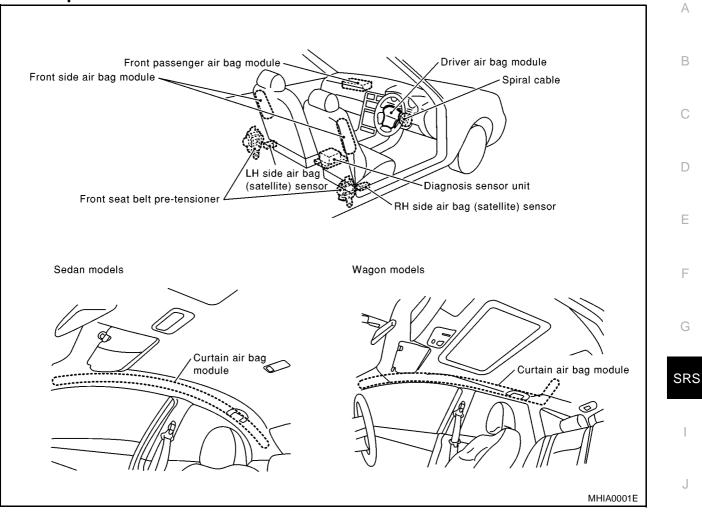
TROUBLE DIAGNOSIS

PFP:00004 А **Trouble Diagnoses-Introduction** EHS000EX **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 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** D 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. E The mode applications for the "AIR BAG" warning lamp and CONSULT-II are as follows: User mode Diagnosis mode Display type F "AIR BAG" warning lamp Х Х **ON-OFF** operation CONSULT-II Х Monitoring NOTE: Seat belt pre-tensioner malfunction is indicated by "AIR BAG" warning lamp. HOW TO PERFORM TROUBLE DIAGNOSES FOR QUICK AND ACCURATE REPAIR SRS A good understanding of the malfunction conditions can make troubleshooting faster and more accurate. In general, each customer feels differently about a malfunction. It is important to fully understand the symptoms or conditions for a customer complaint. Information From Customer WHAT Vehicle model WHEN..... Date, Frequencies WHERE..... Road conditions HOW..... Operating conditions, Symptoms **Preliminary Check** Κ Check that the following parts are in good order. Battery [Refer to SC-3, "How to Handle Battery" .] Fuse [Refer to PG-3, "Schematic" .] System component-to-harness connections WORK FLOW Μ NOTE: Seat belt pre-tensioner malfunction is indicated by "AIR BAG" warning lamp.



*4: <u>SRS-26</u>

SRS Components Parts Location

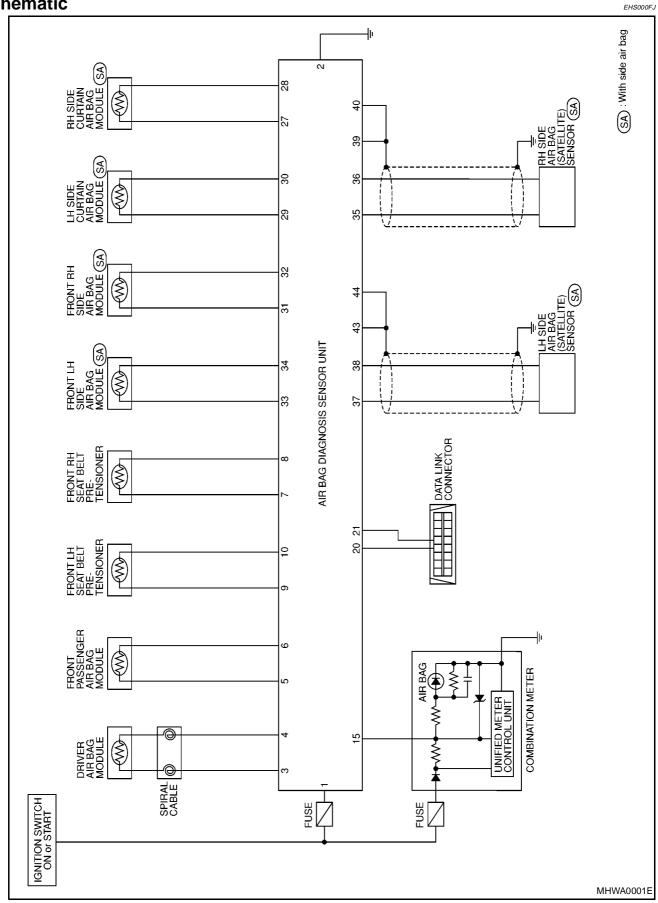


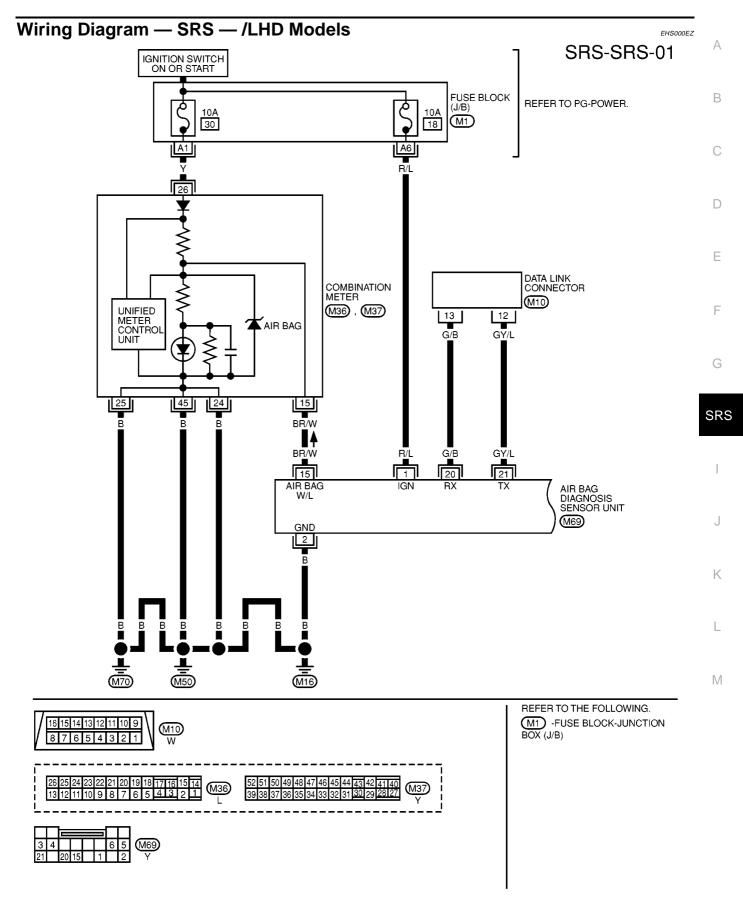
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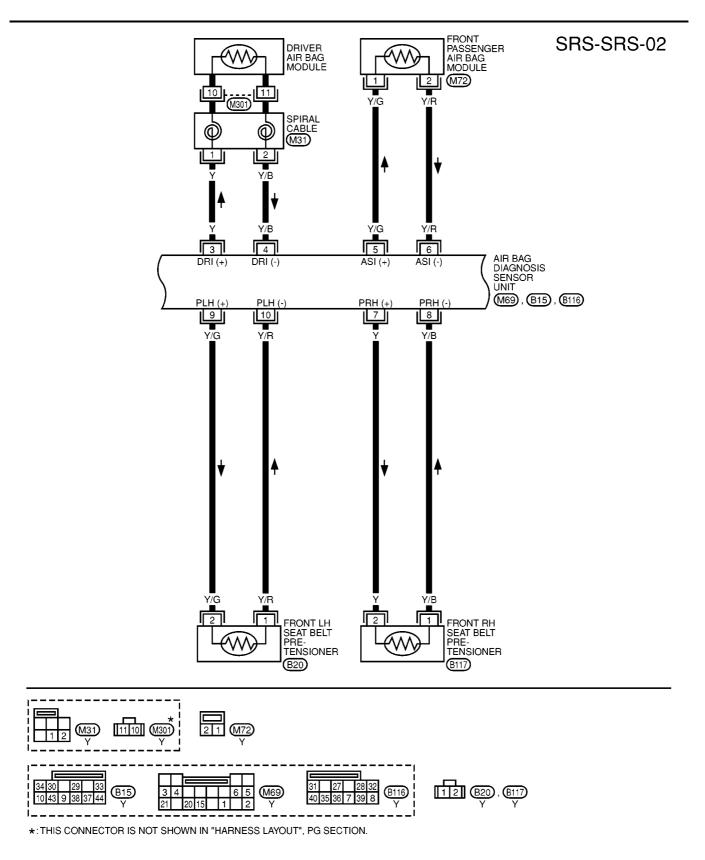
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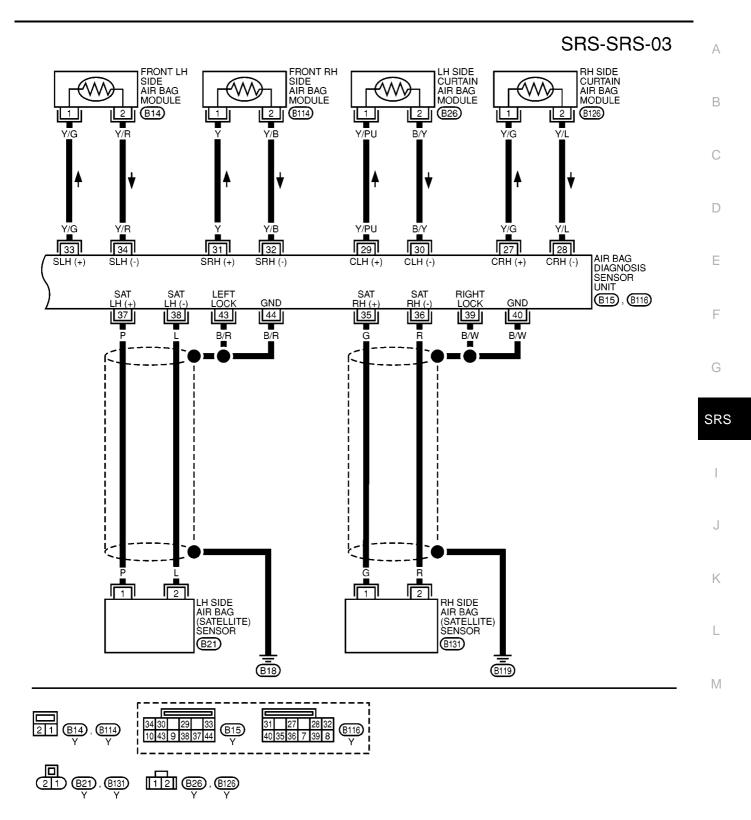
Schematic



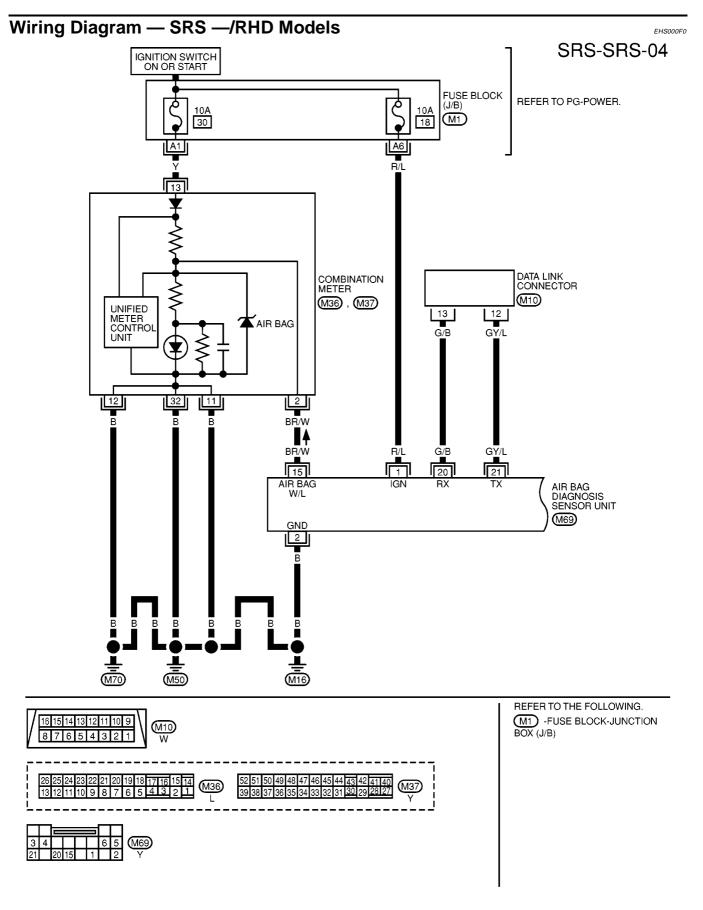


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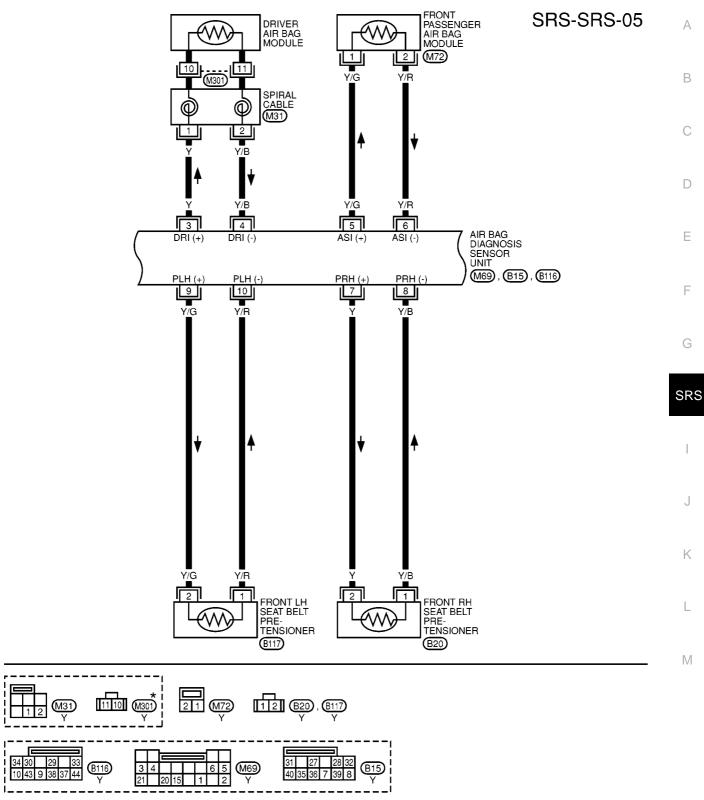




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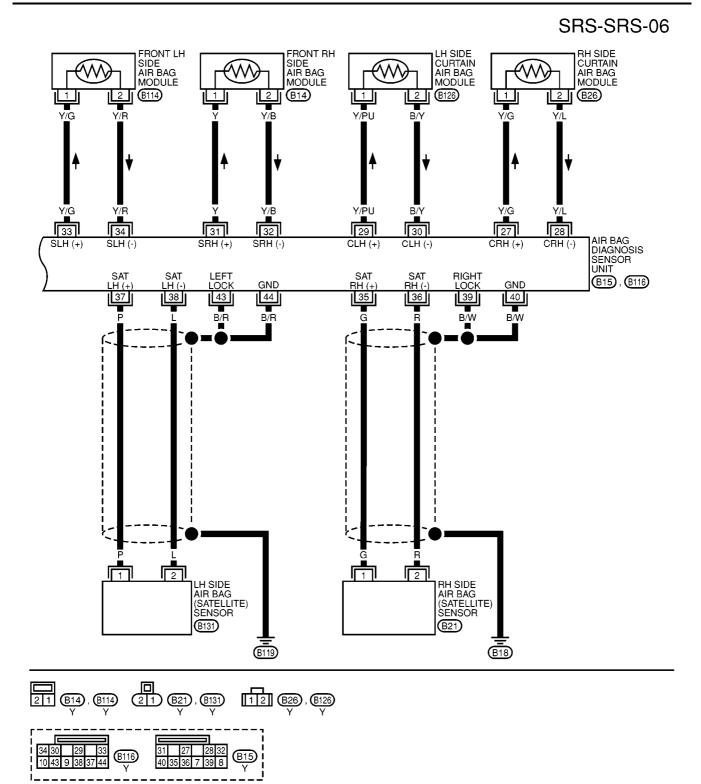


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*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

MHWA0006E



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CONSULT-II Function DIAGNOSIS MODE FOR CONSULT-II

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

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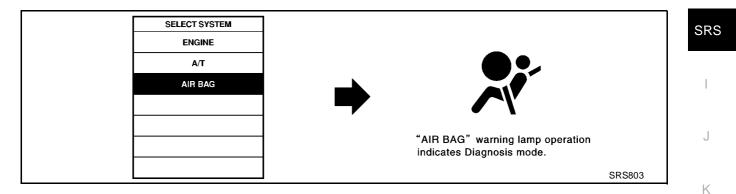
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- "SELF-DIAG [PAST]"
 Diagnosis results previously stored in the memory are displayed on the CONSULT-II screen. The stored cresults are not erased until memory erasing is executed.
- "TROUBLE DIAG RECORD"
 With TROUBLE DIAG RECORD, diagnosis results 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. This number will be displayed on the CONSULT-II screen, as shown below. 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.

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

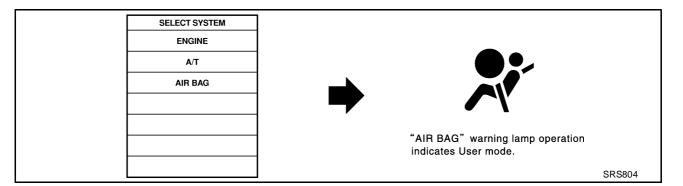
From User Mode to Diagnosis Mode

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.



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.

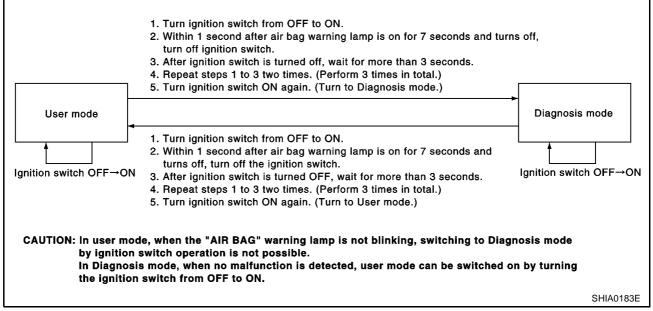
"TROUBLE DIAG RECORD"
 The memory of "TROUBLE DIAG RECORD" cannot be erased

[SELF-DIAG [CUR	RENT]	
	DTC RESULTS:		
	NO DTC IS DETE FURTHER TEST MAY BE REQUI	TING	
			000704
			SRS701

Self-Diagnosis Function (Without CONSULT-II)

- 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.

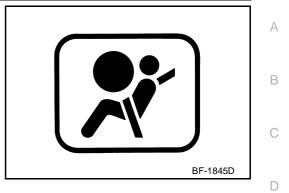
SRS Operation Check DIAGNOSTIC PROCEDURE 1

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.

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2. Compare the SRS air bag warning lamp blinking pattern with the examples.





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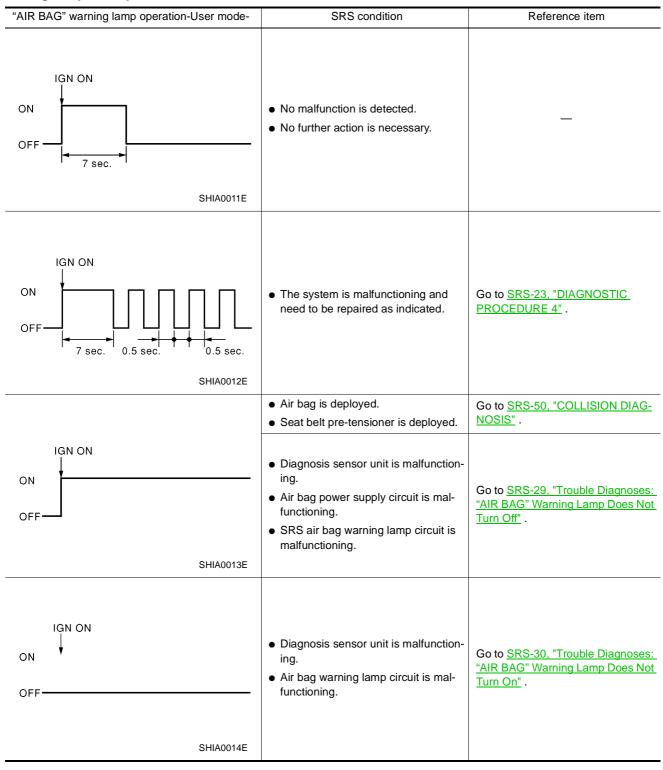
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Warning lamp examples



Trouble Diagnoses with CONSULT–II DIAGNOSTIC PROCEDURE 2

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

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

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5. Touch "AIR BAG".

SELECT SYSTEM	
ENGINE	
A/T	
AIR BAG	
	SRS771

SRS695

SRS

SUB MODE

- SELECT DIAG MODE
 SELF-DIAG [CURRENT]
 SELF-DIAG [PAST]
 TROUBLE DIAG RECORD
 ECU DISCRIMINATED NO.
 SRS697
- 6. On the "self-diagnosis mode selection" screen of CONSULT-II, select the desired "self-diagnosis mode key".

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

• Diagnostic code is displayed on "SELF-DIAG [CURRENT]".

SELF-DIAG [CUI	RRENT]	
DTC RESULTS:		
DRIVER AIR BAG [OPEN]	MODULE	
		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.
 - 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.

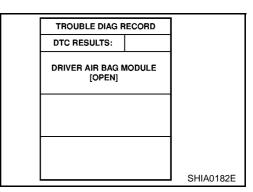
NOTE:

Intermittent malfunction is a malfunction that has occurred once in the past, but soon recovered. Refer to "SRS-23, "DIAGNOSTIC PROCEDURE 3" and SRS-23, "DIAGNOSTIC PROCEDURE 4".

- b. Touch "SELF-DIAG [PAST].
 - The diagnostic code is displayed until erasing the memory in the "SELF-DIAG [CURRENT]".

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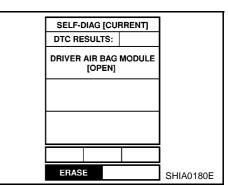
- c. Touch "TROUBLE DIAG RECORD".
 - The diagnosis results (malfunction parts stored in the diagnosis sensor unit) stored in the self-diagnosis results are displayed.
 - The memory of "TROUBLE DIAG RECORD" cannot be erased.



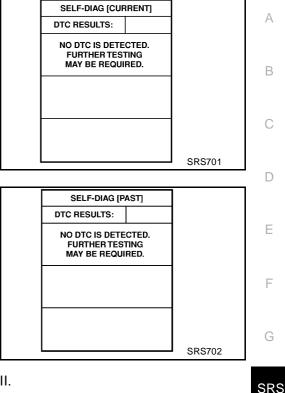
- 7. Each diagnostic code is displayed.
- 8. Touch "PRINT", if required.
- 9. Based on each diagnosis result, repair or replace the malfunction parts.

CAUTION:

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



- 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].



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

- 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 the warning lampreys mode indicates any malfunction, but no malfunction is detected in "SELF-DIAG [CUR-RENT]" on CONSULT-II, carry out the following steps.

- Erase the memory that stored in diagnosis sensor unit.
- Check that no malfunction is detected on "SELF-DIAG [PAST] and "TROUBLE DIAG RECORD" then go to <u>SRS-23, "DIAGNOSTIC PROCEDURE 3"</u>.
- Check that the battery voltage is 9V or more. If it is below 9V, charge the battery.

DIAGNOSTIC PROCEDURE 4

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

- Touch "SELF-DIAG [PAST]" on CONSULT-II, repair or replace the malfunction part displayed on the screen.
- If no malfunction is displayed on "SELF-DIAG [PAST]", touch "BACK" key of CONSULT-II, then touch "TROUBLE DIAG RECORD". Malfunction part is displayed on CONSULT-II screen, and repair or replace the malfunction part displayed on the screen.

SELF-DIAG [PAST] DTC RESULTS: DRIVER AIR BAG MODULE
DRIVER AIR BAG MODULE
[OPEN]
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Diagnostic Code Chart

Diagnostic item		Explanation	Repair order "Recheck SRS at each replacement"	
NO DTC IS DETECTED.	When malfunction is indicated by the "AIR BAG" warning lamp in User mode.	 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. 	 Go to <u>SRS-23</u>, "DIAGNOSTIC PRO <u>CEDURE 3</u>". Go to<u>SRS-21</u>, "DIAGNOSTIC PRO- <u>CEDURE 2</u>". 	
	No malfunction is determined	ected.		
DRIVER AIRBAG MODULE [OPEN]	Driver air bag module	circuit is open (including the spiral cable).	 Visually check the wiring harness connection. Replace the harness if it has visible 	
DRIVER AIRBAG MODULE [VB-SHORT]	• Driver air bag module circuit (including the s	circuit is shorted to some power supply piral cable).	 Replace the namess in it has visible damage. Replace driver air bag module. (Before disposal, it must be deployed.) Replace the spiral cable. Replace the diagnosis sensor unit. 	
DRIVER AIRBAG MODULE [GND-SHORT]	Driver air bag module spiral cable).	circuit is shorted to ground (including the		
DRIVER AIRBAG MODULE [SHORT]	Driver air bag module	circuits are shorted to each other.	6. Replace the related harness.	
ASSIST A/B MODULE [VB-SHORT]	 Front passenger air bas supply circuit. 	ag module circuit is shorted to a power	1. Visually check the wiring harness connection.	
ASSIST A/B MODULE [OPEN]	• Front passenger air ba	ag module circuit is open.	 Replace the harness if it has visible damage. 	
ASSIST A/B MODULE [GND-SHORT]	• Front passenger air ba	ag module circuit is shorted to ground.	3. Replace front passenger air bag module. (Before disposal, it must be	
ASSIST A/B MODULE [SHORT]	 Front passenger air ba other. 	ag module circuits are shorted to each	deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness.	
SIDE MODULE LH [OPEN]	• Front LH side air bag	module circuit is open.	1. Visually check the wiring harness connection.	
SIDE MODULE LH [VB-SHORT]	• Front LH side air bag ply circuit.	module circuit is shorted to a power sup-	2. Replace the harness if it has visible damage.	
SIDE MODULE LH [GND-SHORT]	• Front LH side air bag	module circuit is shorted to ground.	3. Replace front LH side air bag mod- ule.	
SIDE MODULE LH [SHORT]	• Front LH side air bag	module circuits are shorted to each other.	(Before disposal, it must be deployed.)	
			 Replace the diagnosis sensor unit. Replace the related harness. 	
SIDE MODULE RH [OPEN]	• Front RH side air bag	module circuit is open.	1. Visually check the wiring harness connection.	
SIDE MODULE RH [VB-SHORT]	• Front RH side air bag module circuit is shorted to a power supply circuit.		2. Replace the harness if it has visible damage.	
SIDE MODULE RH [GND-SHORT]	• Front RH side air bag	module circuit is shorted to ground.	3. Replace front RH side air bag mod- ule.	
SIDE MODULE RH [SHORT]	• Front RH side air bag	module circuits are shorted to each other.	(Before disposal, it must be deployed.)	
			4. Replace the diagnosis sensor unit.5. Replace the related harness.	

Diagnostic item	Explanation	Repair order "Recheck SRS at each replacement"
SATELLITE SENS LH [UNIT FAIL]	LH side air bag (Satellite) sensor	1. Visually check the wiring harness connection.
SATELLITE SENS LH [COMM FAIL] SATELLITE SENS LH		2. Replace the harness if it has visible damage.
[UNMATCH]		3. Replace the LH side air bag (satel- lite) sensor.
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.
SATELLITE SENS RH [UNIT FAIL]	RH side air bag (Satellite) sensor	 Visually check the wiring harness connection.
SATELLITE SENS RH [COMM FAIL] SATELLITE SENS RH		2. Replace the harness if it has visible damage.
[UNMATCH]		3. Replace the RH side air bag (satel- lite) sensor.
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.
PRE-TEN FRONT LH [OPEN]	The circuit for front LH pre-tensioner is open.	1. Visually check the wiring harness connections.
PRE-TEN FRONT LH [VB-SHORT]	• The circuit for front LH pre-tensioner is shorted to a power supply circuit.	2. Replace the harness if it has visible damage.
PRE-TEN FRONT LH [GND-SHORT]	• The circuit for front LH pre-tensioner is shorted to ground.	 Replace front LH seat belt. (Before disposal, it must be deactivated.)
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.
PRE-TEN FRONT RH [OPEN]	• The circuit for front RH pre-tensioner is open.	1. Visually check the wiring harness connections.
PRE-TEN FRONT RH [VB-SHORT]	• The circuit for front RH pre-tensioner is shorted to a power supply circuit.	2. Replace the harness if it has visible damage.
PRE-TEN FRONT RH [GND-SHORT]	• The circuit for front RH pre-tensioner is shorted to ground.	 Replace front RH seat belt. (Before disposal, it must be deactivated.)
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.
CURTAIN MODULE LH [OPEN]	• The LH side curtain air bag module circuit is open.	1. Visually check the wiring harness connection.
CURTAIN MODULE LH [VB-SHORT]	• The LH side curtain air bag module circuit is shorted to a power supply circuit.	2. Replace the harness if it has visible damage.
CURTAIN MODULE LH	• The LH side curtain air bag module circuit is shorted to ground.	3. Replace LH side curtain air bag
[GND-SHORT]		module. (Before disposal, it must be deployed.)
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.

Diagnostic item	Explanation	Repair order "Recheck SRS at each replacement"
CURTAIN MODULE RH [OPEN]	• The RH side curtain air bag module circuit is open.	1. Visually check the wiring harness connection.
CURTAIN MODULE RH [VB-SHORT]	• The RH side curtain air bag module circuit is shorted to a power supply circuit.	2. Replace the harness if it has visible damage.
CURTAIN MODULE RH [GND-SHORT]	• The RH side curtain air bag module circuit is shorted to ground.	 Replace RH side curtain air bag module. (Before disposal, it must be deployed.)
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.
CONTROL UNIT	Diagnosis sensor unit is malfunctioning.	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 procedures 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 [CUR-RENT]" and "SELF-DIAG [PAST]".

Trouble Diagnoses without CONSULT-II DIAGNOSTIC PROCEDURE 5

EHS000F5

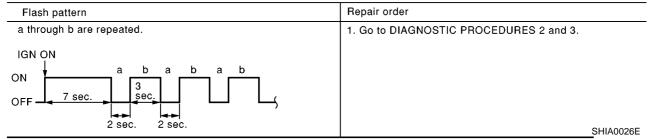
CAUTION:

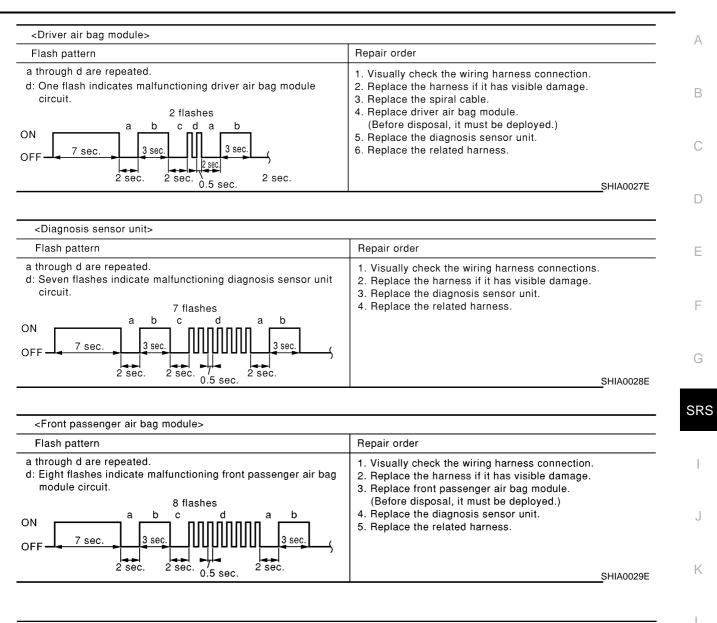
SRS will not enter diagnosis mode if no malfunction is detected in user mode.

- 1. Turn ignition switch "ON".
- 2. After "AIR BAG" warning lamp lights for 7 seconds, turn ignition switch "OFF" within 1 second.
- 3. Wait more than 3 seconds.
- 4. Repeat the steps 1 to 2 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 the battery ground terminal.
- 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 the battery ground cable, and turn the ignition switch ON.
- 10. Check that no malfunction is detected.

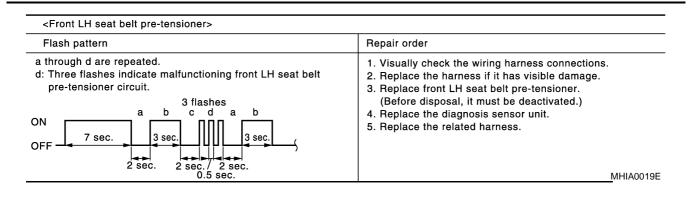
WARNING LAMP FLASH CODE CHART

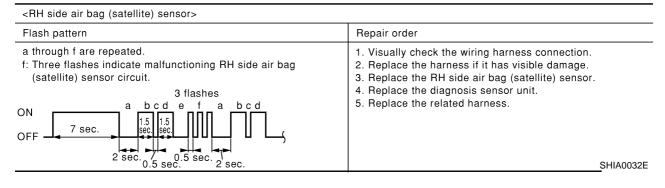
<Diagnosis results (previously stored in the memory) might not be erased after repair or intermittent malfunctions have been detected in the past.>

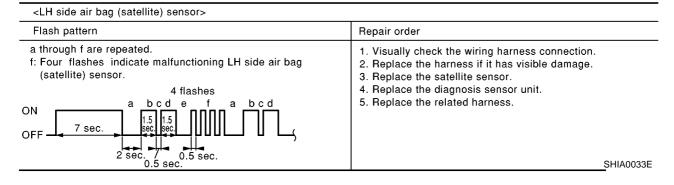




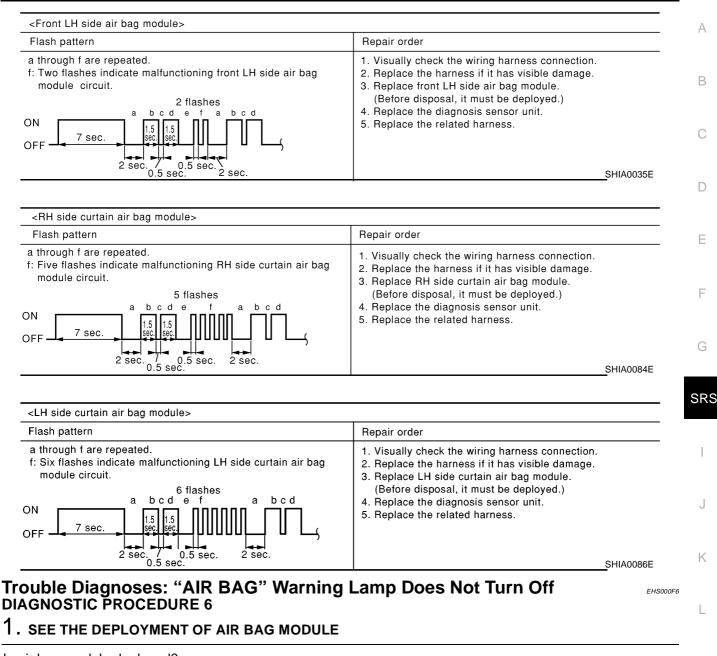
Flash pattern	Repair order	
a through d are repeated. d: One flash indicates malfunctioning front RH seat belt pre-tensioner circuit. 1 flash a b c d a b	 Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace front RH seat belt pre-tensioner. (Before disposal, it must be deactivated.) Replace the diagnosis sensor unit. 	
OFF 7 sec. 3 sec. 3 sec. 3 sec. 2 sec	5. Replace the related harness.	=







<front air="" bag="" module="" rh="" side=""></front>	
Flash pattern	Repair order
a through f are repeated. f: One flash indicate malfunctioning front RH side air bag module circuit. ON OFF 7 sec. 2 sec. 0.5 sec. 0.5 sec.	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace front RH side air bag module. (Before disposal, it must be deployed.) Replace the diagnosis sensor unit. Replace the related harness.



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Is air bag module deployed?

Yes or No

Yes >> Refer to <u>SRS-50, "COLLISION DIAGNOSIS"</u>.

No >> GO TO 2.

2. CHECK THE AIR BAG FUSE

Check the fuse. Refer to <u>PG-3, "POWER SUPPLY ROUTING"</u>. OK or NG

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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

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Connect CONSULT-II and touch "START".

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

Yes or No

Yes	>> GO TO 5.
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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.

Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn On DIAGNOSTIC PROCEDURE 7

EHS000F7

1. CHECK "METER" FUSE

Check the "METER" fuse (No. 30). Refer to <u>PG-3, "POWER SUPPLY ROUTING"</u>.

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**

$\mathbf{3.}\ check$ 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?

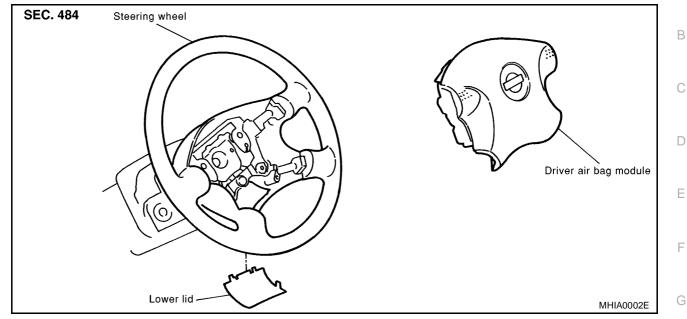
Yes or No

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

SRS-30

DRIVER AIR BAG MODULE

DRIVER AIR BAG MODULE Removal and Installation SEC. 484 Steering wheel



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.
- 1. Push the top of horn pad downward.
- 2. Rotate the air bag module installation spring to inner direction with a flat-bladed screwdriver, remove air bag module.

Deployment tool (KV99106400) Deployment tool adapter (KV99109700) Inflator Side curtain air bag module connector	ŀ
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3. 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 blade 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 use attempt to disassemble driver air bag module.
- 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.

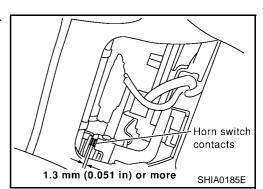
INSTALLATION

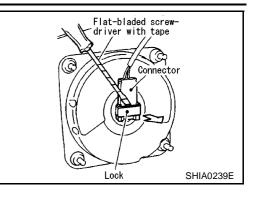
To install, reverse the removal procedure sequence.

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



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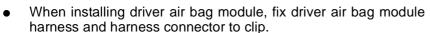


Up

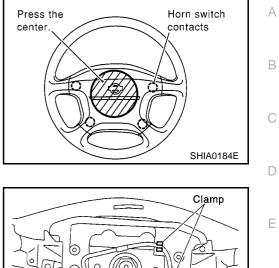
分

DRIVER AIR BAG MODULE

• For installing the air bag module, the center of the horn pad pressed to make the contacts (RH/LH) ON.



 After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-18</u>, <u>"SRS Operation</u> <u>Check"</u>.



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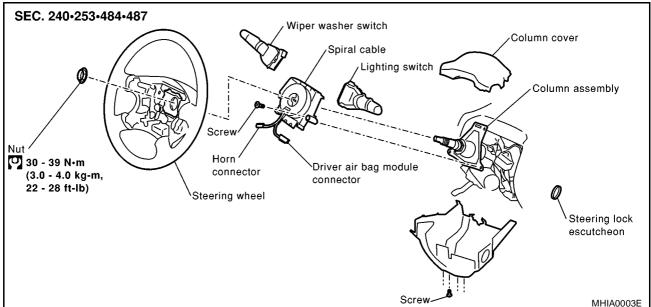
SPIRAL CABLE

SPIRAL CABLE

PFP:25554

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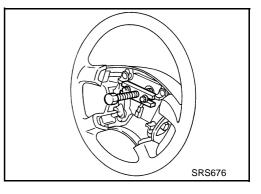
REMOVAL

CAUTION:

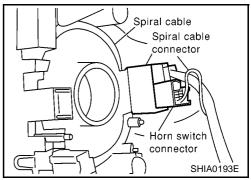
- Before servicing SRS, turn the ignition switch off, disconnect the battery ground cable and wait at least 3 minutes.
- 1. Remove driver air bag module. Refer to <u>SRS-31, "Removal and Installation"</u>.
- 2. Set the steering wheel in the neutral position.
- 3. Disconnect the horn connector.
- 4. Remove the column cover. Refer to IP-3, "INSTRUMENT PANEL ASSEMBLY".
- 5. Disconnect the horn switch connector, then the spiral cable connector. CAUTION:

Do not tap or bump the steering wheel.

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

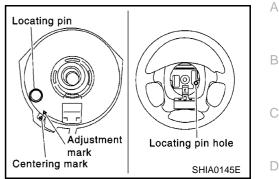


- Remove the spiral cable fixing screws, and while pushing the upper plastic tab, remove the spiral cable.
 CAUTION:
 - Do not attempt to disassemble spiral cable.
 - Do not apply lubricant to the spiral cable.
- 8. Remove the wiper washer switch and lighting switch from the spiral cable.



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 2.5 turns from the right end position.



INSTALLATION

To install, reverse the removal procedure sequence.

• After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-18, "SRS Operation Check"</u>.

Components Inspection

- 1. Remove spiral cable connectors.
- 2. Check continuity between spiral cable harness connector M31 terminal 1, 2 and M301 terminal 1, 2.

Terminal	Continuity
1 – 1	Should exist.
2 – 2	

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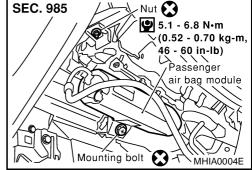
FRONT PASSENGER AIR BAG MODULE

FRONT PASSENGER AIR BAG MODULE

Removal and Installation REMOVAL

CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect the battery ground cable and wait at least 3 minutes.
- Always work from the side of or under front passenger air bag module.
- 1. Remove the glove box. Refer to IP-3, "INSTRUMENT PANEL ASSEMBLY" .
- 2. Remove instrument lower panel and instrument assistance panel, and reconnect front passenger air bag harness connector.
- 3. Remove front passenger fixing bolts
 - O : 14.7 24.5 N·m (1.5 2.4 kg-m, 11 18 ft-lb) ... Hexagon bolt
 - C : 19.6 29.4 N·m (2.0 2.9 kg-m, 15 21 ft-lb) ... Special bolt



4. 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 caution 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 <u>SRS-18, "SRS Operation Check"</u>.

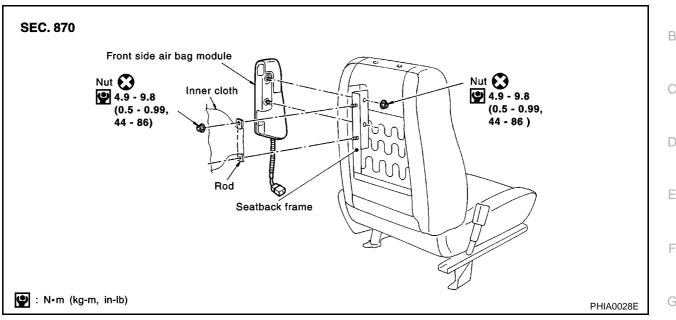


FRONT SIDE AIR BAG MODULE

FRONT SIDE AIR BAG MODULE

PFP:K8EH0

Removal and Installation



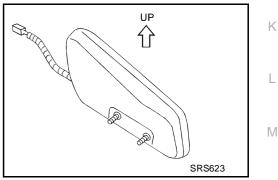
REMOVAL

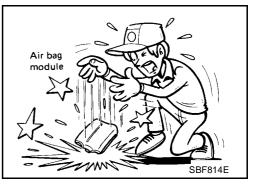
CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect the battery ground cable and wait at least 3 minutes.
- Always work from the rear of the front side air bag module.
- 1. Pull up the seatback trim. Refer to SE-10, "FRONT SEAT" .
- 2. Remove the nuts securing the inner cloth with seatback frame. Then pull up the inner cloth.
- 3. 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 seatback 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 bolts after removal; replace with new bolts.
- Replace front 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 seatback frame (including front seatback flame) should be replaced.





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INSTALLATION

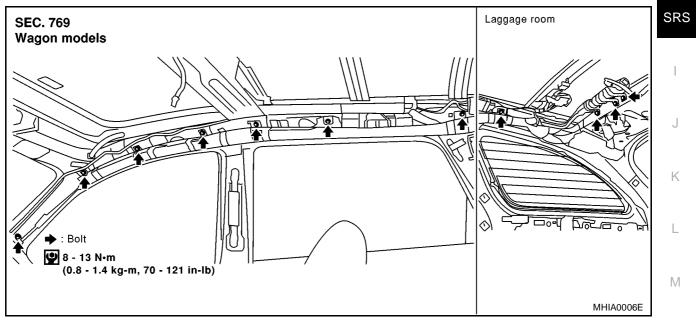
To install, reverse the removal procedure.

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 <u>SRS-18, "SRS Operation Check"</u>.

SIDE CURTAIN AIR BAG MODULE

SIDE CURTAIN AIR BAG MODULE PFP:985P0 А **Removal and Installation** EHS000FD SEC. 769 Sedan models 🕞 В D Е F Bolt Ŷ 8 - 13 N·m Te (0.8 - 1.4 kg-m, 70 - 121 in-lb) // MHIA0005E



REMOVAL

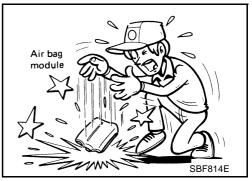
CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect the battery ground cable and wait at least 3 minutes.
- 1. Remove headlining. Refer to EI-32, "HEADLINING" .
- 2. Remove the side curtain air bag module fixing bolts, and remove the side curtain air bag module.

CAUTION:

- Be sure to place the curtain air bag module with caution label attached surface facing above.
- Always place the side curtain air bag module standing with the stud bolt side setting bottom.
- Do not insert any foreign objects (screwdrivers) into side curtain air bag module.
- Do not attempt to disassemble side curtain air bag module.

- Do not use old bolts after removal; replace with new bolts.
- Replace side curtain air bag module if it has been dropped or sustained an impact.
- Do not expose the side curtain air bag module to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the side curtain air bag module.



INSTALLATION

To install, reverse the removal procedure.

CAUTION:

After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-18, "SRS Operation Check"</u>.

FRONT SEAT BELT PRE-TENSIONER

Removal and Installation		
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for removal and installation procedures, refer to <u>SB-3, "Removal and Installation of Front Seat Bel</u>	<u>t"</u> .	I
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DIAGNOSIS SENSOR UNIT

Removal and Installation REMOVAL

CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect the battery ground cable and wait at least 3 minutes.
- 1. Disconnect each harness connector for the air bag module and seat belt pre-tensioner.
- Remove center console. Refer to <u>IP-3, "INSTRUMENT PANEL</u> <u>ASSEMBLY"</u>.
- 3. Disconnect diagnosis sensor unit connector.
- 4. 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

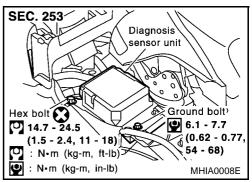
To install, reverse the removal procedure sequence.

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 <u>SRS-18, "SRS Operation Check"</u>.

ECU DISCRIMINATED NO.

For NISSAN MODEL P12, the diagnosis sensor unit classification numbers assigned are A924 (without front side air bag and side curtain air bag) and A923 (with front side air bag and side curtain air bag).



DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER PFP:00014 А Caution for Air Bag Module and Seat Belt Pre-tensioner EHSODOEG 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 В indicated in "SRS-49, "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 D 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. Ε 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. E 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. SRS **CHECKING DEPLOYMENT TOOL** Connecting to Battery **CAUTION:** The battery must show voltage of 9.6V or more. Red Remove the battery from the vehicle and place it on dry wood blocks Black Θ approximately 5 m (16 ft) away from the vehicle. Deployment tool 00 (KV99106400) 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 PHIA0003E to the battery. Μ **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 illumi-000 nate. If it does not illuminate, replace the tool. Push Lamp

SBF266H

Air Bag Deployment Tool Lamp Illumination Chart (Battery Connected)

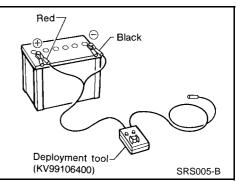
Switch operation	Left side lamp, green* "AIR BAG CONNECTOR VOLTAGE"	Right side lamp, green* "DEPLOYMENT TOOL POWER"
OFF	OFF	ON
ON	ON	ON

*: 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)

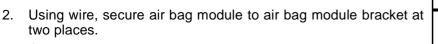
Unless the vehicle is being scrapped, deploying the air bag in the vehicle is not recommended. This may cause damage to the vehicle interior.

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



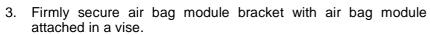
Deployment of Driver Air Bag Module (Outside of Vehicle)

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.

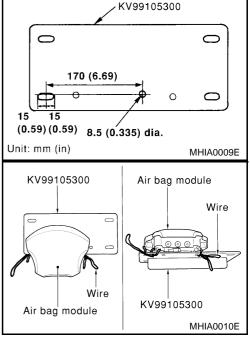


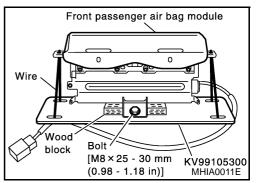
CAUTION:

Use wire of at least 1 mm (0.041 in) diameter.

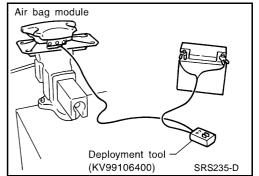


4. Connect deployment tool adapter (KV99109700) to deployment tool [SST: KV99106400 (J38381)] to air bag module connector.





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



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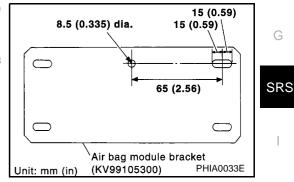
- 6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 7. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module will deploy.

CAUTION:

When deploying the 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)

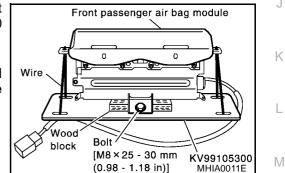
- 1. Make an 8.5 mm (0.335 in) diameter hole in air bag module bracket (SST: KV99105300) at the position shown in figure at right.
- 2. Firmly secure air bag module bracket (SST: KV99105300) in a vise.



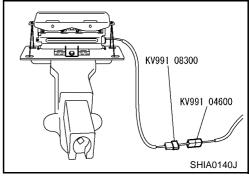
3. Match a hole in air bag module bracket (held in vise) and front passenger air bag module and fix them with a bolt [M8 \times 25 - 30 mm (0.98 - 1.18 in)] and wire.

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.



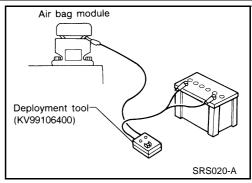
- 4. Connect deployment tool adapter (KV99108300) to deployment tool (SST: KV99106400) connector and front passenger air bag module connector.
- 5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 6. The lamp on the right side of the tool, marked "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.



13 (0.51)

Unit: mm (in)

70

(2.76)

80

(3.15)

6.5 (0.256) dia.

 \frown

SRS490-C

Air bag module bracket

(KV99105300)

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

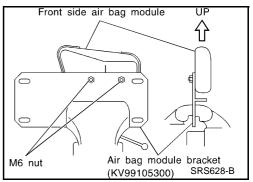
 Make 6.5 mm (0.256 in) diameter holes in air bag module bracket (SST: KV99105300) at the position shown in figure at right.

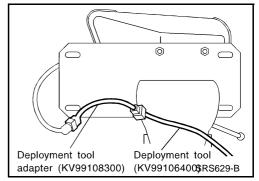
- 2. Firmly secure air bag module bracket (SST: KV99105300) in a vise.
- 3. Insert the stud bolts of side air bag module into the two holes in air bag module bracket (held in vise) and fix them with two M6 nuts.

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: KV99108300) to deployment tool (SST: KV99106400) connector and connector on air bag module.





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

CAUTION:

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

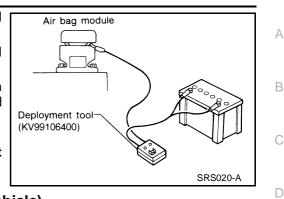
Deployment of Side Curtain Air Bag Module (Outside of Vehicle)

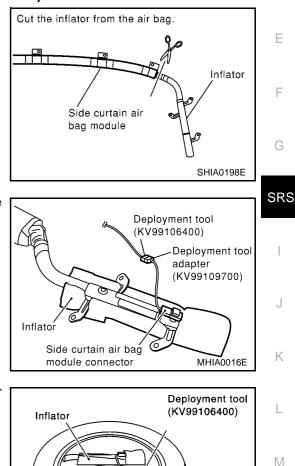
1. Cut the inflator from side curtain air bag module.

2. Connect deployment tool adapter (SST: KV99109700) to the inflator.

3. Put the inflator connected with the deployment tool adaptor (SST: KV99109000) into a tire without wheel.







PHIA0011E

4. Put the tire with the inflator onto another tire without wheel. Add an additional tire without wheel and then a tire mounted on a wheel on top.

CAUTION:

Tie all tires together with a strap in order keep them standing.

- 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 L

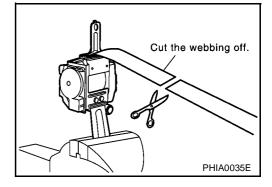
the tool, marked "air bag connector voltage", will illuminate and the air bag module will deploy. **CAUTION:**

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

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

1. Firmly grip pre-tensioner in a vise.

Seat belt pre-tensioner

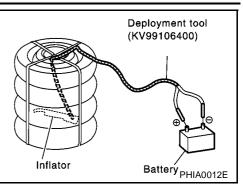


- Deployment tool adapter (KV99109700) Deployment tool (KV99104600) BAT PHIA0036E
- Connect deployment tool adapter (SST: KV99109700) to deployment tool (SST: KV99106400) connector and front seat belt pre-tensioner connector.
- 4. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 5. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 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:

2. Cut the webbing off.

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 А When disposing of a vehicle, deploy air bag module and seat belt pre-tensioners while they are mounted in vehicle. В **CAUTION:** When deploying air bag module or seat belt pre-tensioner, ensure vehicle is empty. Disconnect both the vehicle battery cables and wait 3 minutes. С 2. Disconnect air bag module and seat belt pre-tensioner connector. 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. For front passenger air bag module, attach deployment tool adapter (SST: KV99108300) to the tool con-D nector. For side air bag module, attach deployment tool adapter (SST: KV99108300) to the tool connector. For seat belt pre-tensioner, attach deployment tool adapter (SST: KV99109700) to the tool connector. E 4. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal. The lamp on the right side of the tool, marked "deployment tool F 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.

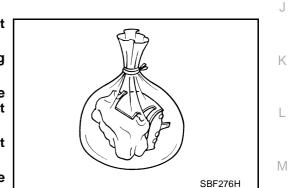
CAUTION:

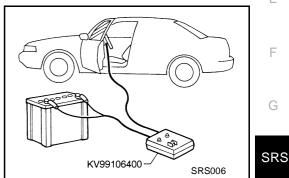
1.

3.

5.

- 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.





For Frontal Collision

To repair the SRS, perform the following steps.

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

- 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 <u>SRS-18, "SRS Operation</u> <u>Check"</u> for details. Ensure entire SRS operation properly.

WHEN SRS IS NOT ACTIVATED IN A COLLISION:

- 1. Check the SRS components using the table shown below:
- Replace any SRS components showing visible signs of damage (dents, cracks and deformation).
- Conduct self-diagnosis using CONSULT-II or "AIR BAG" warning lamp. Refer to <u>SRS-18</u>, "<u>SRS Operation</u> <u>Check</u>" for details. Ensure entire SRS operation properly.

SRS INSPECTION (FOR FRONTAL COLLISION)

Part	SRS is activated	SRS is NOT activated
Air bag module (driver and front pas- senger air bag mod- ule)	REPLACE Install with new bolts.	 Remove air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. a. Install driver air bag module into the steering wheel to check fit and alignment with
		the wheel.
		 Install passenger air bag module into the instrument panel to check fit with the instrument panel.
		3. No damage found, reinstall with new bolts.
		 If damaged—REPLACE. Install air bag modules with new special bolts Air bag must be deployed before disposal.
Seat belt pre-ten- sioner assembly	REPLACE Install seat belt pre- tensioner with new bolts.	 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.
		If damaged—REPLACE. Install the seat belt pre-tensioners with new bolts. Seat belt pre-tensioners must be deployed before disposal.
Diagnosis sensor unit	REPLACE Install with new bolts.	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.
		 If damaged—REPLACE. Install diagnosis sensor unit with new bolts and ground bolt.
Steering wheel	1. Visually check steer	ng wheel for deformities.
	2. Check harness (built	into steering wheel) and connectors for damage, and terminals for deformities.
	3. Install air bag modul	e to check fit or alignment with steering wheel.
	4. Check steering whee	el for excessive free play.
	5. If no damage is foun	d, reinstall with bolts.
	6. If damaged—REPLA	ACE.

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SRS is activated	SRS is NOT activated
1. Visually check spiral	cable and combination switch for damage.
2. Check connectors ar	nd protective tape for damage.
3. Check steering whee	el for noise, binding or heavy operation.
4. If no damage is foun	d, reinstall with bolts.
5. If damaged—REPLA	CE.
1. Check connectors fo	r poor connection, damage, and terminals for deformities.
2. Check harness for bi	nding, chafing, cuts, or deformities.
3. If no damage is foun	d, reinstall the harness and connectors.
4. Damaged—REPLAC harness.	E damaged section of harness. Do not attempt to repair, splice or modify any SRS
1. Visually check instru	mental panel for damage.
2. If no damage is foun	d, reinstall the instrument panel.
3. If damaged—REPLA	CE the instrument panel with bolts.
_	 Check connectors ar Check steering whee If no damage is found If damaged—REPLA Check connectors for Check harness for bit If no damage is found Damaged—REPLAC harness. Visually check instrum If no damage is found

- 1. Replace the following component:
- All parts of front seatback (including front seatback 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.
- 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 <u>SRS-18</u>, "<u>SRS Operation</u> <u>Check</u>". 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.
- Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
- 2. Conduct self-diagnosis using CONSULT-II or "AIR BAG" warning lamp. Refer to <u>SRS-18</u>, "<u>SRS Operation</u> <u>Check</u>". Ensure entire SRS operation properly.
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SRS INSPECTION (FOR SIDE COLLISION)

	Frank side of the state	,		
Part	Front side air bag and side curtain air bag is activated	Front side air bag and side curtain air bag is NOT activated		
(LH or RH) side cur- tain air bag module	Replace the side cur- tain air bag module. (Repair the center pil- lar inner, etc. before installing new one if damaged.)	1. Check for visible signs of damage (dents, tears, deformation) of the center pillar on the collision side.		
		2. If damaged— Remove the side curtain air bag module.		
		3. Check for visible signs of damaged (tears etc.) of the side curtain air bag module.		
		4. Check harness and connectors for damage, and terminals for deformities.		
		5. If no damage is found, reinstall the side curtain air bag module with new bolts.		
		If damaged—REPLACE the side curtain air bag module with new bolts. Air bag must be deployed before disposal.		
Front (LH or RH) side air bag module	REPLACE all parts of seatback with deployed front side air bag module.	1. Check for visible signs of damage (dents, tears, deformation) of the seatback on the collision side.		
		If damaged—REPLACE the damaged seat parts with new bolts and remove the front side air bag module.		
		3. Check for visible signs of damaged (tears etc.) of the front side air bag module.		
		4. Check harness and connectors for damage, and terminals for deformities.		
		5. If no damaged is found, reinstall the front side air bag module with new nuts.		
		If damaged—REPLACE the front side air bag module with new nut. Air bag must be deployed before disposal.		
(LH or RH) side air bag (satellite) sensor	REPLACE the side air bag (satellite)	1. Remove the side air bag (satellite) sensor on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding.		
	sensor on the colli- sion side with new nuts. (Repair the center pil- lar inner, etc. before	2. Check for visible signs of damage (dents, cracks, deformation) of the side air bag (satellite) sensor.		
		3. Install the side air bag (satellite) sensor to check fit.		
		4. If no damage is found, reinstall the side sir bag (satellite) sensor with new nuts.		
	installing new one if damaged.)	5. If damaged—REPLACE the side air bag (satellite) sensor with new nuts.		
Diagnosis sensor unit		1. Check case and bracket for dents, cracks or deformities.		
	nosis sensor unit with the new bolts.	2. Check connectors for damage, and terminals for deformities.		
	the new bolts.	If no damage is found, reinstall the diagnosis sensor unit with new bolts and ground bolt.		
		4. If damaged—REPLACE the diagnosis sensor unit with new bolts and ground bolt.		
Seat belt pre-ten- sioner assembly		t can be extended smoothly. of be extended smoothly,		
	- Check for deformities	s of the center pillar inner.		
	If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.			
	2. Remove the seat belt pre-tensioner assembly on the collision side. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.			
	3. Check for visible signs of damage (dents, cracks, deformation) of the seat belt pre-tensioner assembly.			
	4. If no damage is found, reinstall the seat belt pre-tensioner assembly.			
	If damaged—REPLACE the seat belt pre-tensioner assembly with new bolts. The seat belt pre-tensioner assembly must be deployed before disposal.			
Seat with front side	REPLACE all parts of	1. Visually check the seat on the collision side.		
air bag	front seatback (including front seat- back frame)	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) 		
		3. If no damage is found, reinstall the seat.		
		4. If damaged—REPLACE the damaged seat parts with new bolts.		

SRS-52

Part	Front side air bag and side curtain air bag is activated	Front side air bag and side curtain air bag is NOT activated	A
Center pillar inner	1. Check the center pill	ar inner on the collision side for damage (dents, cracks, deformation).	-
	2. If damaged—REPAIR the center pillar inner.		
Trim	1. Check for visible sig	ns of damage (dents, cracks, deformation) of the interior trim on the collision side.	-
	2. If damaged—REPLA	CE the damaged trim parts.	_
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