# SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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E52BA00AA

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#### CAUTION

- Carefully read and observe the information in the SRS SERVICE PRECAUTIONS (P.52B-3.) Prior to any service. •
- For information concerning troubleshooting or maintenance, always observe the procedures in the Troubleshooting (P.52B-7) or the SRS Maintenance (P.52B-25) sections respectively.
- If any SRS components are removed or replaced in connection with any service procedures, be sure to follow . the procedures in the INDIVIDUAL COMPONENT SERVICE section (P.52B-32) for the components involved. If you have any questions about the SRS, please contact your local distributor.

# **GENERAL INFORMATION**

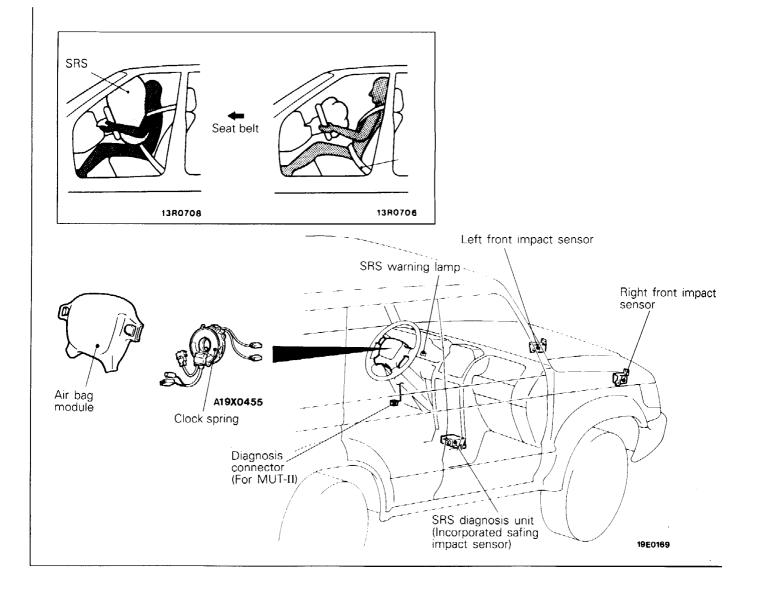
The Supplemental Restraint System (SRS) is designed to supplement the driver's seat belt to help reduce the risk or severity of injury to the driver by activating and deploying an air bag in certain frontal colisions.

The SRS consists of: left front and right front impact sensors one located, on the right and left radiator support panel; an air bag module located in the centre of the steering wheel, which contains the folded air bag and an inflator unit; the SRS diagnosis unit located in front of the shift lever, which monitors the system, and which contains a safing impact sensor; an SRS warning lamp located on the instrument panel, which indicates the operational status of the SRS, and clock E00AF10AA

spring interconnection located within the steering column; wiring.

The SRS is designed so that the air bag will deploy when the safing sensor, plus either or both of the left front and right front impact sensors simultaneously activate while the ignition switch is "ON". That is designed to occur in frontal or near-frontal impacts of moderate to severe force.

Only authorized service personnel should do work on or around the SRS components. Those service personnel should read this manual carefully before starting any such work. Extreme care must be used when servicing the SRS. to avoid injury to the service personnel (by inadvertent deployment of the air bag) or the driver (by rendering the SRS inoperative).



# SRS SERVICE PRECAUTIONS

- 1. In order to avoid injury to yourself or others from accidental deployment of the air bag during servicing, read and carefully follow all the precautions and procedures described in this manual.
- 2. Do not use any electrical test equipment on or near SRS components, except those specified on P.52B-5. Never use an analogue ohmmeter.
- Never Attempt to Repair the Following Com-3. ponents:

- Front Impact Sensors •
- SRS Diagnosis Unit (SDU) •
- Clock Spring
- Air Bag Module

If any of these components are diagnosed as faulty, they should only be replaced, in accordance with the INDIVIDUAL COM-PONENTS SERVICE procedures in this procedures in this manual, starting at page 52B-32.

4. Do not attempt to repair the wiring harness connectors of the SRS. If any of the connectors are diagnosed as faulty, replace the wiring harness. If the wires are diagnosed as faulty, replace or repair the wiring harness according to the following table.

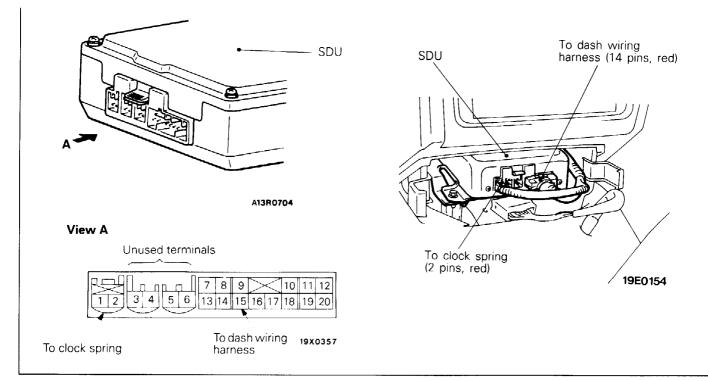
SDU Ter- minal No.	Harness Connector (No. of Ter- minals, Colour)	Destination of Harness	Corrective Action
1 2	2 pins, red	Dash wiring harness   Clock spring	Correct or replace each wiring harness Replace clock spring
7 and 8		- · · · · · · · · · · · · · · · · · · ·	
9	•	Dash wiring harness	Correct or replace
10		Dash wir- ing har- ness► Control wiring har- ness► Dash wir- ing har- ness► Ignition switch (ST)	each wiring harness
11		Dash wiring harness  • Junction block (fuse No. 18)	
12		Dash wiring harness    Junction block (fuse No. 12)	
13	11	Dash wiring <ul> <li>Instrument pan-</li> <li>SRS warning</li> </ul>	
14	14 pins, red	harness el wiring har- lamp ness	
16		Dash wiring   Front wiring  Front impact	Replace with sensor
17		harness harness sensor (LH)	cable*
15		Dash wiring   Front wiring  Front impact	
18	•	harness harness sensor (RH)	
19			Correct or replace
20		Dash wiring harness Earth	dash wiring harness

NOTE

(1) The sensor cable marked with\* is available as service part.

(2) The sensor cable used as a replacement part is routed along the dash wiring harness and front wiring harness.

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- 5. After disconnecting the battery cable, wait 60 seconds or more before proceeding with the following work. The SRS system is designed to retain enough voltage to deploy the air bag for a short time even after the battery has been disconnected, so serious injury may result from unintended air bag deployment if work is done on the SRS system immediately after the battery cables are disconnected.
- 6. SRS components should not be subjected to heat over 93°C, so remove the front impact sensors, SRS diagnosis unit, air bag module and clock spring before drying or baking the vehicle after painting. Recheck SRS system operability after re-installing the components.
- 7. Whenever you finish servicing the SRS, check the SRS warning lamp operation to make sure that the system functions properly. (Refer to P.52B-7.)
- 8. Make certain that the ignition switch is OFF when the MUT-II is connected or disconnected.
- 9. If you have any questions about the SRS, please contact your local distributor.

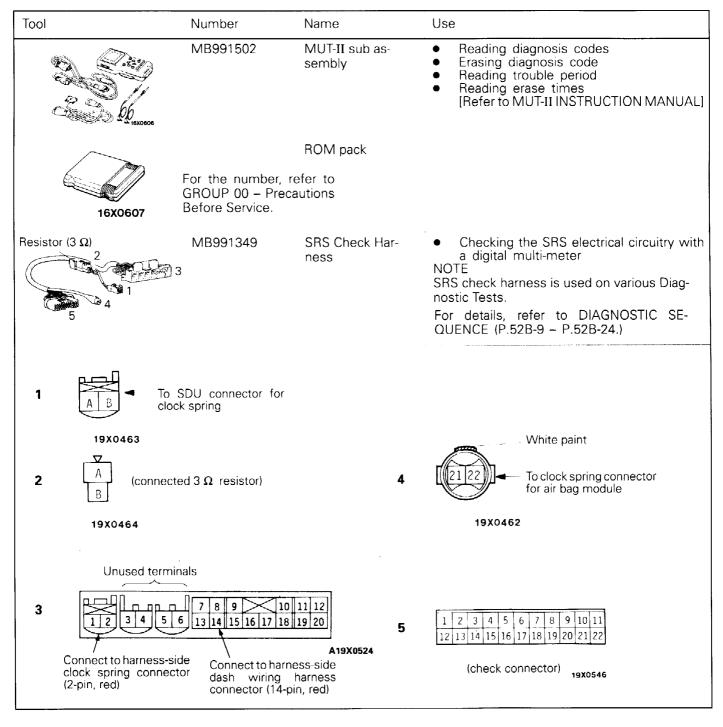
#### NOTE

SERIOUS INJURY CAN RESULT FROM UNINTENDED AIR BAG DEPLOYMENT, SO USE ONLY THE RROCEDURES AND EQUIPMENT SPECIFIED IN THIS MANUAL.

# SERVICE SPECIFICATIONS

Items		Specifications
Standard value		
Front impact sensor resistance	Ω	$2,000 \pm 20$
Clock spring resistance	Ω	less than 0.4

# SPECIAL TOOLS AND TEST EQUIPMENT



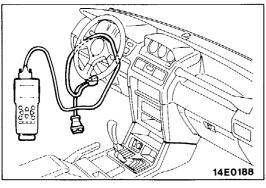
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#### E52BD00AA

ТооІ	Number	Name	Use
	Use a multi-meter for v mum test current is 2 the minimum range measurement 1380748	2 mA or less at	Checking the SRS electrical circuitry with SRS Check Harness
	MB990803	Steering wheel puller	Removal of steering wheel
C.S.W	MB686560	SRS AIR BAG ADAPTER HAR- NESS A	Deployment of air bag module inside the ve- hicle
	MB628919	SRS AIR BAG ADAPTER HAR- NESS B	Deployment of air bag module outside the vehicle

# TROUBLESHOOTING



# DIAGNOSTIC FUNCTION DIAGNOSTIC CODES CHECK

#### E52BE01AA

Connect the MUT-II to the diagnosis connector (16-pin) under the instrument under cover, then check diagnostic codes.

#### ERASING DIAGNOSTIC CODES

Connect the MUT-II to the diagnosis connector (16-pin) then erase the diagnostic codes.

#### INSPECTION CHART FOR DIAGNOSTIC TROUBLE CODES

E52BE02AA

Inspect according to the inspection chart that is appropriate for the malfunction code.

Code No.	Diagnostic item		Reference page
11			
12	Front impact sensor system		P.52B-8
13			
21	Air had madula (aquib) cyctom		P.52B-10
22	Air bag module (squib) system		1.320-10
31			P.52B-12
32	SDU capacitor system		1.520-12
33* <sup>2</sup>	Cranking signal system		P.52B-13
34* <sup>2</sup>	Connector lock system		P.52B-14
41* <sup>1,</sup> * <sup>2</sup>	IG1 (A) power circuit system		P.52B-15
42 <sup>*1, *2</sup>	IG1 (B) power circuit system		P.52B-16
40		Lamp does not illuminate*2	P.52B-18
43	SRS warning lamp drive circuit system	Lamp does not switch off	P.52B-19
44	SDU warning lamp drive circuit system	( ]	P.52B-20
45	SDU non-volatile memory (EEPROM) and	d A/D converter system	P.52B-21

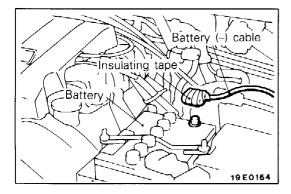
NOTE

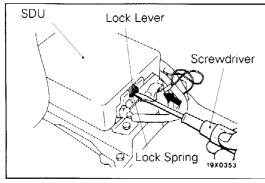
 \*<sup>1:</sup> For diagnosis codes marked with \*, if the vehicle condition returns to normal for a continuous period of 5 ± 0.2 seconds, the diagnosis code will be automatically erased, and the SRS warning lamp will return to normal.

2. \*<sup>2</sup>: If the vehicle has a discharged battery it will store the fault codes 41 or 42. When these diagnosis codes are displayed, check the battery.

#### INSPECTION PROCEDURE CLASSIFIED BY DIAGNOSTIC TROUBLE

ode No. 2 or 13	11,	Front im	ipact sens	or system	1		Probable cause
the SDU	front impa	ict sensor.	ut if there is a de No. are as		tance between the	e input terminals of	<ul> <li>Malfunction of front impact sensor</li> <li>Malfunction of harnesses or connectors</li> <li>Malfunction of SDU</li> </ul>
Code No.			Tro	uble Symptor	n		
11	<ul> <li>Short</li> <li>vehic</li> <li>Short</li> </ul>	t in front imp le body eart	h	air bag modul	rt e (squib) harnesse: e (squib) harnesse:	U	
12	<ul> <li>Shore</li> </ul>				ict sensor or open e (squib) harnesse:		
13	<ul> <li>Shore</li> </ul>				act sensors or ope e (squib) harnesse		
codes relation one may should als	ating to th be output so be insp	e air bag me instead of bo ected at the	odule (squib) (	code Nos. 21 Iorised. Beca	combination with and 22), but som use of this, the air Front impact sen <sup>i</sup> Open circuit	netimes only bag module	
,			an a	Short	(1 sensor)	(2 sensors)	
Air bag	module (s	quib)	Short	11 or 21	12 or 21	13 or 21	
			Open circuit	11 or 22	12 or 22	13 or 22	





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1. Turn the ignition key to the "LOCK" position, disconnect the negative battery cable and tape the terminal.

#### Caution

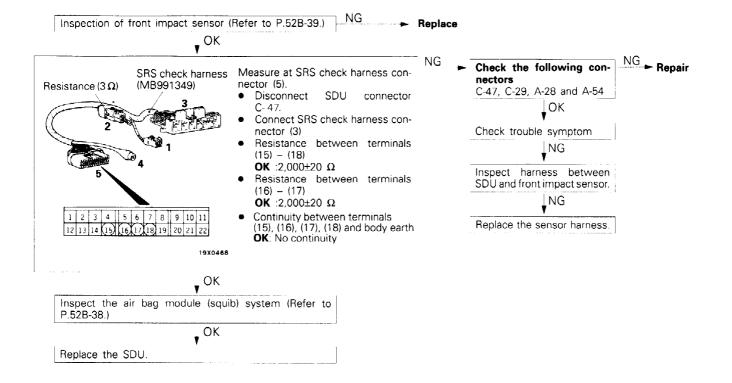
Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P. 52B-4)

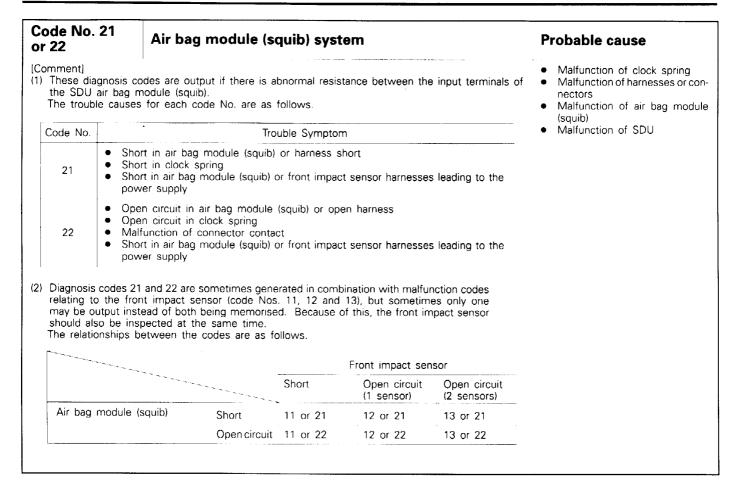
- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (-) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

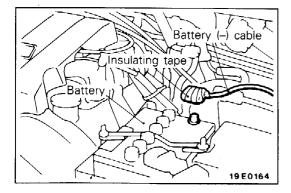
#### Caution

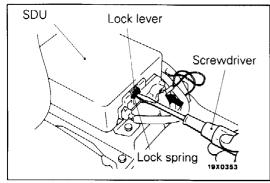
- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.

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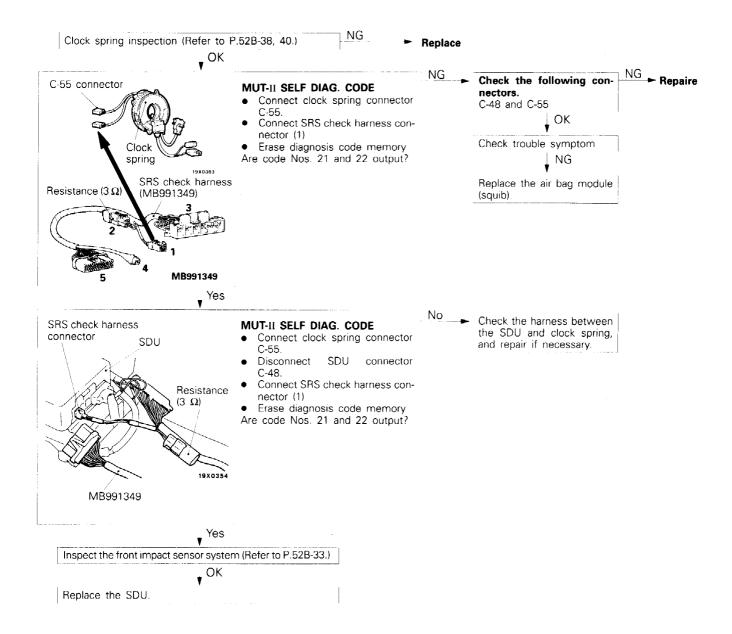
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#### Caution

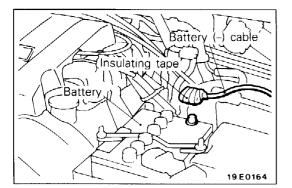
Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P. 52B-4)

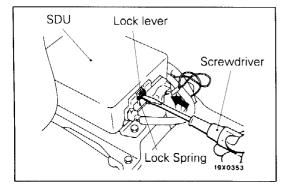
- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (-) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.



Code No. 31 or 32	SDU capacitor system	Probable cause
[Comment] These diagnosis codes are output if the voltage at the SDU capacitor terminals is higher (No. 31) or lower (No. 32) than the specified value for 5 seconds or more. However, if diagnosis code Nos. 41 and 42 are being output due to a drop in battery voltage, code No. 32 will not be detected.		<ul> <li>Malfunction of front impact sensor</li> <li>Malfunction of SDU</li> </ul>





#### Caution

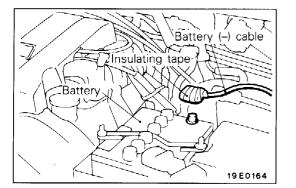
Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P. 52B-4)

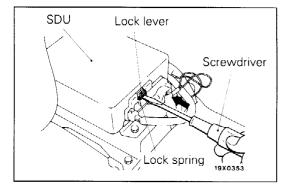
- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (–) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

#### Caution

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU. The capacitor inside the SDU is probably defective, so replace the SDU.

However, code No. 32 could also be a result of a short in the front impact sensor, so inspection of the front impact sensor system should also be carried out. (Refer to P.52B-8.)





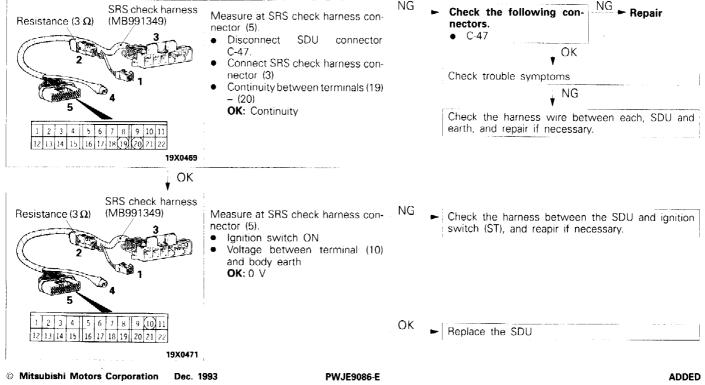
```
Caution
Wait at least 60 seconds after disconnecting the bat-
```

tery cable before doing any further work. (Refer to P. 52B-4)

- 2. Remove the floor console assembly. (Refer to GROUP 52A - Floor Console.)
- 3. Place a flat-tipped (-) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

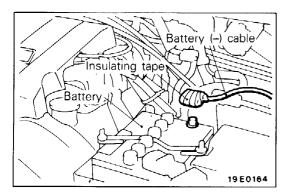
#### Caution

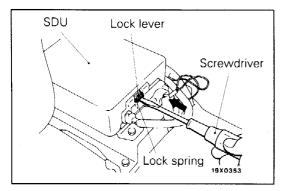
- 1. Do not use excessive force to raise the lock lever (green).
- Do not insert the screwdriver into the gap between 2. the lock lever (green) and the lock spring (metal portion).
- Disconnect the red 14-pin connector from the SDU. 4



52B-13

Code No. 34	Connector lock system	Probable cause	
is detected to be ope However, if the vehicl	e condition returns to normal for a continuous period of 5 sis code No. 34 will be automatically erased, and the SRS	<ul> <li>Malfunction of connectors</li> <li>Malfunction of SDU</li> </ul>	





Is the SDU engagement detection mechanism operating No. correctly?

Yes

1. Turn the ignition key to the "LOCK" position, disconnect the negative battery cable and tape the terminal.

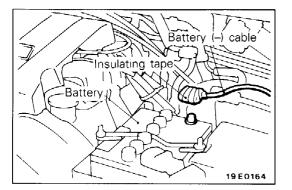
#### Caution

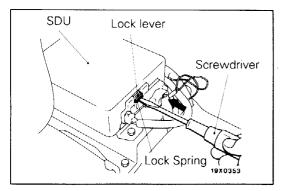
Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P.52B-4.)

- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (–) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.
  - Insert the connector securely and lower the lock lever to lock the connector.

Code No. 41	IG <sub>1</sub> (A) power circuit system	Probable cause
earth is lower than the more. However, if the vehicle	output if the voltage between the $IG_1$ (A) terminal and the e specified value for a continuous period of 5 seconds or condition returns to normal for a continuous period of 5 sis code No. 41 will be automatically erased, and the SRS ich off.	<ul> <li>Malfunction of harnesses or connectors</li> <li>Malfunction of SDU</li> </ul>





#### Caution

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P. 52B-4)

- Remove the floor console assembly. (Refer to GROUP 52A – Floor Console.)
- 3. Place a flat-tipped (-) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

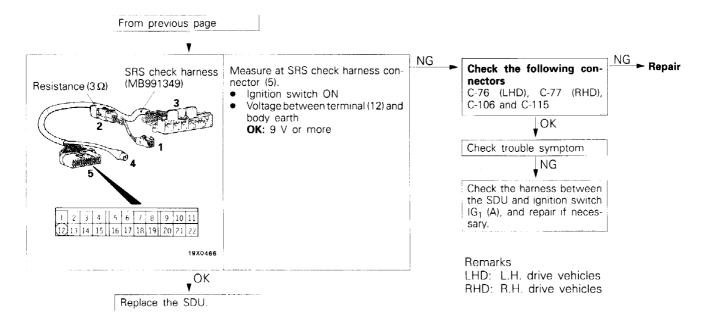
#### Caution

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.

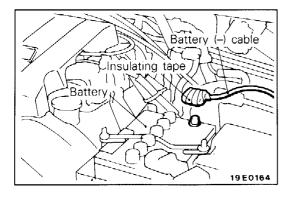
NG NG - Repair Check the following con-SRS check harness Measure at SRS check harness connector. nector (5). (MB991349) Resistance (3 $\Omega$ ) C-47 SDU Disconnect connector К C-47. Connect SRS check harness connector (3) Check trouble symptom Continuity between terminals (19) NG (20)OK: Continuity Check the harness between the SDU and earth, and repair if necessary. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 ¢ок

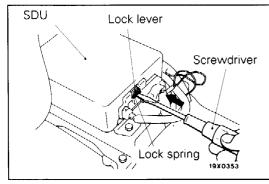
To next page

# 52B-16



Code No. 42	IG <sub>1</sub> (B) power circuit system	Probable cause
earth is lower than th more. However, if the vehicle	output if the voltage between the $IG_1$ (B) terminal and the e specified value for a continuous period of 5 seconds or e condition returns to normal for a continuous period of 5 sis code No. 41 will be automatically erased, and the SRS sch off.	<ul> <li>Malfunction of harnesses or connectors</li> </ul>





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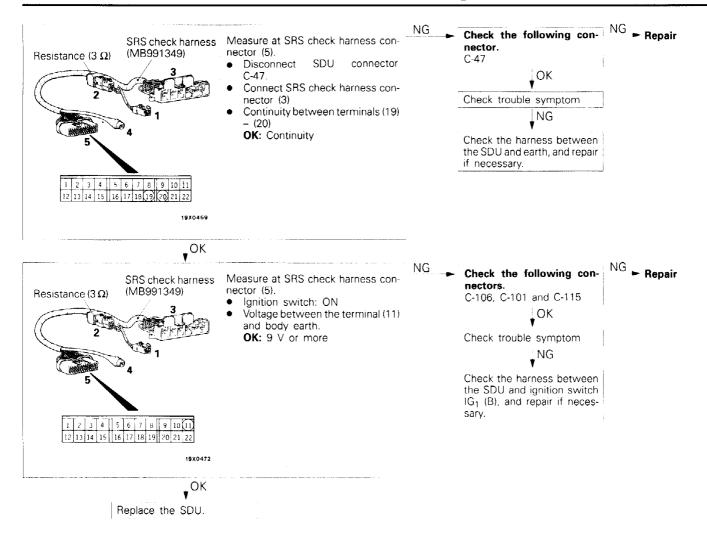
1. Turn the ignition key to the "LOCK" position, disconnect the negative battery cable and tape the terminal.

#### Caution

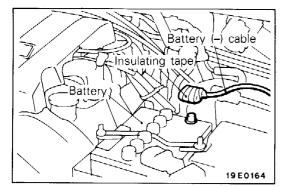
Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P. 52B-4)

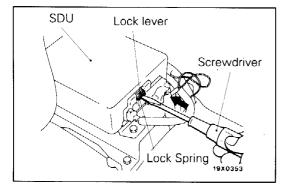
- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (-) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.



Code No. 43	SRS warning lamp drive circuit system (Lamp does not illuminate.)	Probable cause
of 5 seconds while the OFF (transistor OFF). However, if this code returns to normal for a	butput when an open circuit occurs for a continuous period SDU is monitoring the SRS warning lamp and the lamp is is output due to an open circuit, if the vehicle condition continuous period of $5 \pm 0.2$ seconds, this diagnosis code ased, and the SRS warning lamp will return to normal.	<ul> <li>Malfunction of harnesses or connectors</li> <li>Blown bulb</li> <li>Malfunction of SDU</li> <li>Malfunction of combination meter</li> </ul>

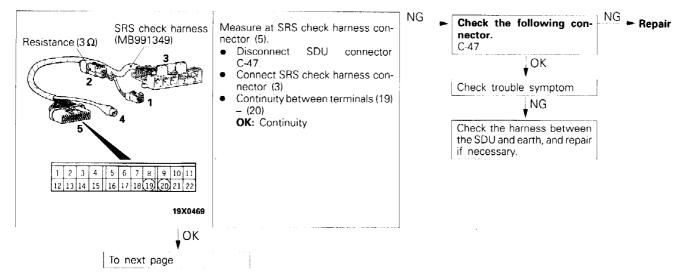


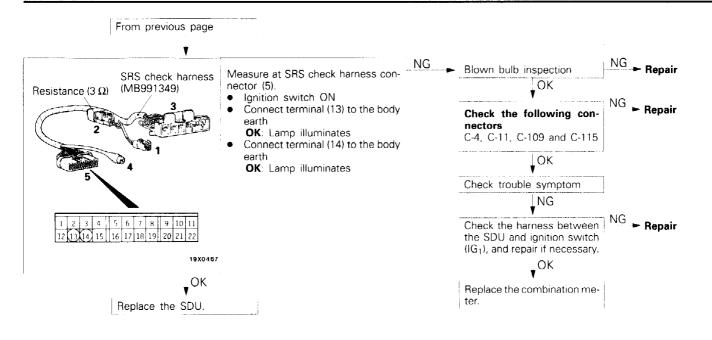


```
Caution
Wait at least 60 seconds after disconnecting the bat-
tery cable before doing any further work. (Refer to
P. 52B-4)
```

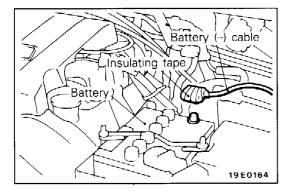
- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (-) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

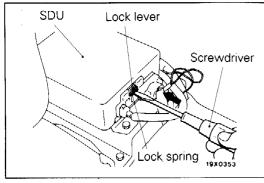
- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.





Code No. 43	SRS warning lamp drive circuit sys- tem (Lamp does not switch off.)	Probable cause
[Comment] This diagnosis code is output when a short to earth occurs in the harness between the lamp and the SDU while the SDU is monitoring the SRS warning lamp and the lamp is ON.		<ul> <li>Malfunction of harnesses or connectors</li> <li>Malfunction of SDU</li> </ul>





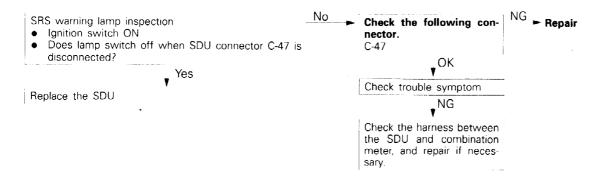
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#### Caution

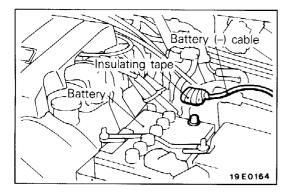
Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P. 52B-4)

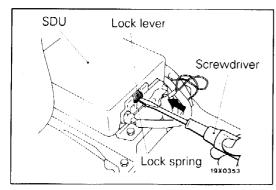
- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (-) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.



Code No. 44	SRS warning lamp drive circuit sys- tem	Probable cause
[Comment] This diagnosis code is output when a short occurs in the lamp drive circuit or a malfunction of the output transistor inside the SDU is detected while the SDU is monitoring the SRS warning lamp drive circuit.		<ul> <li>Malfunction of harnesses or connectors</li> <li>Malfunction of SDU</li> </ul>





#### Caution

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P. 52B-4)

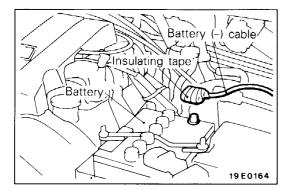
- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (-) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

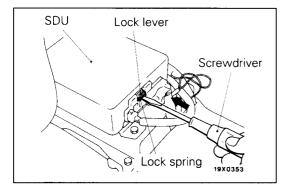
#### Caution

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.

If the results of inspection of the SRS warning lamp drive circuit system (refer to P.52B-18) are normal, the transistor inside the SDU is probably defective, so replace the SDU.

Code No. 45	SDU non-volatile memory (EEPROM) and A/D converter system	Probable cause	
[Comment] This diagnosis code is output if there is a malfunction in the SDU non-volatile memory (EEPROM) or A/D converter.		Malfunction of SDU	





#### Caution

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P. 52B-4)

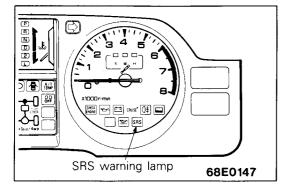
52B-21

- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (–) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

#### Caution

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.

The SDU non-volatile memory (EEPROM) or A/D converter is probably defective, so replace the SDU.



#### SRS WARNING LAMP INSPECTION

1. Check to be sure that the SRS warning lamp illuminates when the ignition switch is in the ON position.

E52BE04AA

- 2. Check to be sure that it illuminates for approximately 7 seconds and then switches off.
- 3. If the above is not the case, inspect the diagnosis codes.

#### **INSPECTION CHART FOR TROUBLE SYMPTOMS**

Get an understanding of the trouble symptoms and check according to the inspection procedure chart.

Trouble symptom			Inspection Procedure No.	Reference page
Communication with MUT-II	Communication with all systems is not possible.		1	P.52B-23
is not possible.	Communication is not possible with SRS only		2	P.52B-23
When the ignition key is turned to "ON" (engine stopped), the SRS warning lamp does not illuminate.		Refer to diagnosis code No. 43.	P.52B-18	
lamp	Not			
lgnitio key	n ON — ACC, LOCK —	14N0167		
After the ignition switch is turned to ON, the SRS warning lamp is still on after approximately 7 seconds have passed.			Refer to diagnosis	P.52B-19
SRS w lamp	Not illuminated		code No. 43.	7
lgnitic key	ACC, LOCK —	14N0166		

# INSPECTION PROCEDURE FOR TROUBLE SYMPTOMS

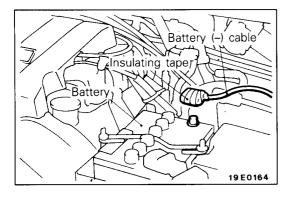
#### **Inspection Procedure 1**

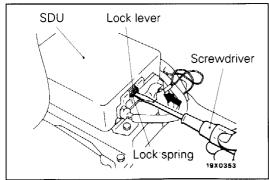
Communication with MUT-II is not possible. (Communication with all system is not possible)	Probable cause	
[Comment] The cause is probably a power supply system (including earth circuit) of the diagnosis line.	<ul><li>Malfunction of connectors</li><li>Malfunction of harness</li></ul>	

Refer to GROUP 13A - Troubleshooting

#### **Inspection Procedure 2**

Communication with MUT-II is not possible. (Communication is not possible with SRS only)	Probable cause	
[Comment] If communication is not possible with the SRS only, the cause is probably an open circuit in the diagnosis output circuit of the SRS or in the power circuit (including earth circuit).	<ul> <li>Malfunction of harnesses or connectors</li> <li>Malfunction of SDU</li> </ul>	





1. Turn the ignition key to the "LOCK" position, disconnect the negative battery cable and tape the terminal.

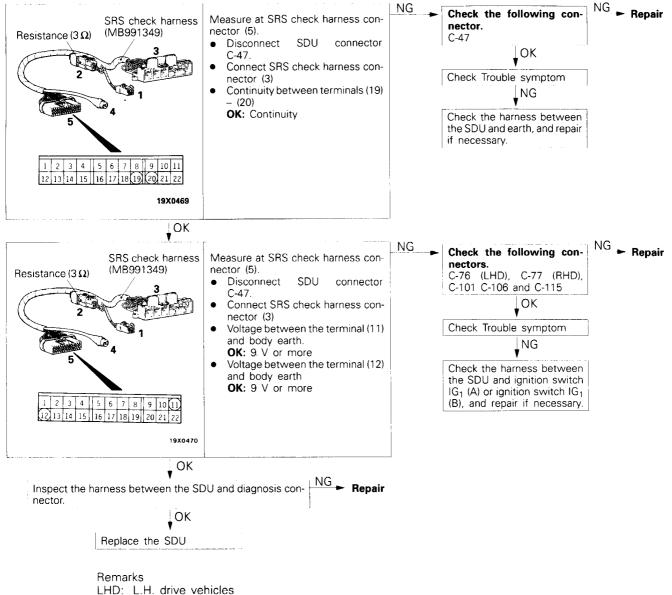
#### Caution

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P. 52B-4)

- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (–) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SDU.

#### SRS – Troubleshooting



RHD: R.H. drive vehicles

52B-24

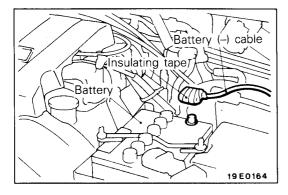
# SRS MAINTENANCE

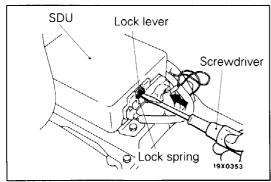
#### E52BF00AA

52B-25

The SRS must be inspected by an authorized dealer 10 years after the date of vehicle registration.

# SRS warning lamp 68E0147





#### "SRS" WARNING LAMP CHECK

E52BF01AA

Turn the ignition with the key "ON" position. Does the "SRS" warning lamp illuminate for about 7 seconds, turn OFF and then remain extinguished for at least 45 seconds? If yes, SRS system is functioning properly. If no, consult page 52B-7.

#### SRS COMPONENTS VISUAL CHECK.

E52BF03AA

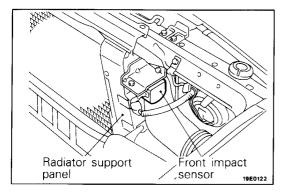
1. Turn the ignition key to "LOCK" position, disconnect the negative battery cable and tape the terminal.

#### Caution

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P.52B-4.)

- 2. Remove the floor console assembly. (Refer to GROUP 52A Floor Console.)
- 3. Place a flat-tipped (–) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion).
- 4. Disconnect the red 14-pin connector from the SRS diagnosis unit while pressing down the lock of the connector.



#### FRONT IMPACT SENSORS

#### E52BF03BA

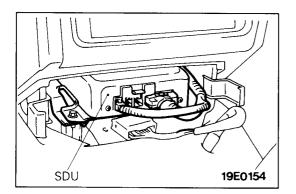
- 1. Check sensors to ensure the arrow marks face the front of the vehicle.
- 2. Check radiator support panel and front impact sensor for deformities or rust.

#### Caution

The SRS may not activate if a front impact sensor is not installed properly, which could result in serious injury or death to the vehicles driver.

3. Check wiring harness (for front impact sensor) for binds, connector for damage, and terminals for deformities.

Replace sensor and/or wiring harness if it fails visual check. (Refer to P.52B-3 and P.52B-33.)



#### SRS DIAGNOSIS UNIT (SDU)

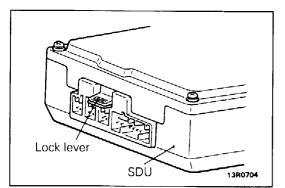
E52BF03CA

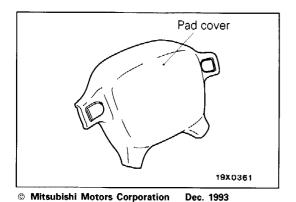
1. Check SDU case and brackets for dents, cracks, deformities or rust.

#### Caution

The SRS may not activate if a front impact sensor is not installed properly, which could result in serious injury or death to the vehicles driver.

 Check connectors and lock lever for damage, and terminals for deformities or rust. Replace SDU if it fails visual check. (Refer to P.52B-35.)





AIR BAG MODULE, STEERING WHEEL AND CLOCK SPRING

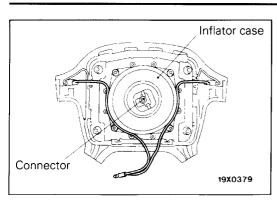
1. Remove the air bag module, steering wheel and clock spring. (Refer to P.52B-38.)

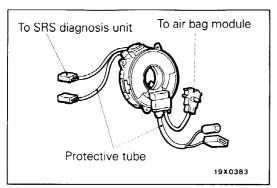
#### Caution

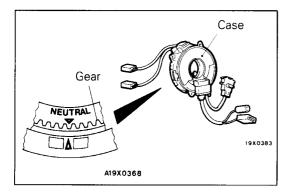
The removed air bag module should be stored in a clean, dry place with the pad cover face up.

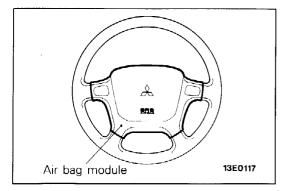
2. Check pad cover for dents, cracks of deformities.

PWJE9086-E









3. Check connector for damage, terminals deformities, and harness for binds.

52B-2

 Check air bag inflator case for dents, cracks or deformities.
 Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.

6. Check clock spring connectors and protective tube for damage, and terminals for deformities.

- 7. Visually check the clock spring case and the gears for damage.
- 8. Align the mating mark and "NEUTRAL" position indicator and, after turning the vehicle's front wheels to straightahead position, install the clock spring to the column switch.

#### Caution

If the clock spring's mating mark is not properly aligned, the steering wheel may not be completely rotational during a turn, or the flat cable within the clock spring may be severed, obstructing normal operation of the SRS and possibly leading to serious injury to the vehicle's driver.

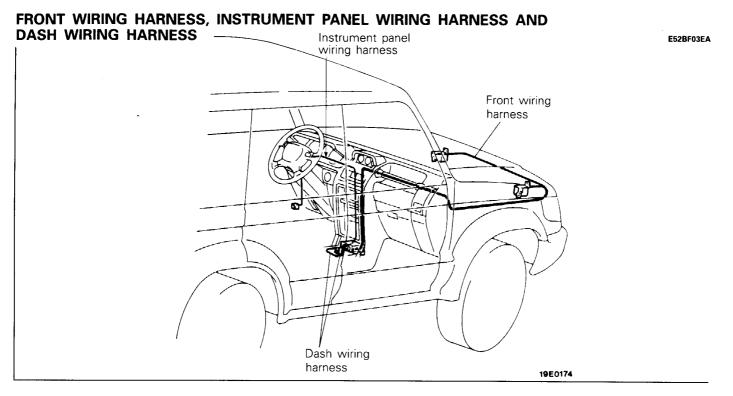
- 9. Install the steering column covers, steering wheel and the air bag module.
- 10. Check steering wheel for noise, binds of difficult operation.
- 11. Check steering wheel for excessive free play.

REPLACE ANY VISUALLY INSPECTED PART IF IT FAILS THAT INSPECTION.

(Refer to P.52B-38.)

#### Caution

The SRS may not activate if any of the above components is not installed properly, which could result in serious injury or death to the vehicle's driver.



- 1. Check connector for poor connection.
- Check harnesses for binds, connectors for damage, and terminals for deforimities. REPLACE ANY CONNECTORS OR HARNESS THAT FAIL THE VISUAL INSPECTION. (Refer to P.52B-3.)

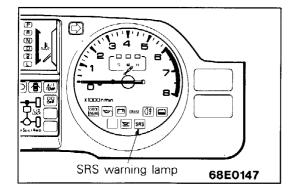
#### Caution

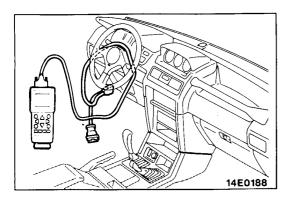
The SRS may not activate if SRS harnesses or connectors are damaged or improperly connected, which could result in serious injury or death to the vehicle's driver.

#### **POST-INSTALLATION INSPECTION**

E52BF04AA

Reconnect the negative battery terminal. Turn the ignition key to the "ON" position. Does the "SRS" warning lamp illuminate for about 7 seconds, turn OFF and then remain extinguished for at least 45 seconds? If yes. SRS system is functioning properly. If no. consult page 52B-7.)





# POST-COLLISION DIAGNOSIS

E13BF20AA

To inspect and service the SRS after a collision (whether or not the air bag has deployed), perform the following steps.

# SRS DIAGNOSIS UNIT MEMORY CHECK E13BF21AA

1. Connect the MUT-II to the diagnosis connector (16-pin) located at the right or left side of the junction block.

#### Caution

Make certain that the ignition switch is OFF when the MUT-II is connected or disconnected.

2. Read (and write down) all displayed diagnosis codes. (Refer to P.52B-7.)

#### NOTE

If the battery power supply has been disconnected or disrupted by the collision, the MUT-II cannot communicate with the SRS diagnosis unit. Inspect and, if necessary, repair the body wiring harness before proceeding further.

3. Read the service data (fault duration and how many times memories are erased) using the MUT-II.

#### NOTE

- Maximum stored period: 9999 minutes (approximately 7 days)
- Maximum number of times to be stored: 250
- 4. Erase the diagnosis codes and after waiting 45 seconds or more read (and write down) all displayed diagnosis codes. (Refer to P.52B-7.)

#### **REPAIR PROCEDURE**

#### E13BF22AA

#### When air bag deploys collision.

- 1. Replace the following parts with new ones.
  - Front impact sensors (Refer to P.52B-33.)
  - SRS diagnosis unit (SDU)(Refer to P.52B-35.)
  - Air bag module (Refer to P.52B-38.)
- 2. Check the following parts and replace a part if there is a malfunction.
  - Clock spring (Refer to P.52B-38.)
  - Steering wheel, steering column and intermediate joint (Refer to P.52B-31 or GROUP 37 – Steering wheel and Shaft.)
- 3. Check harnesses for binding, connectors for damage, poor connections, and terminals for deformities. (Refer to P.52B-3.)

#### When air bag does not deploy in low-speed collision.

Check the SRS components.

If the SRS components are showing any visible damage such as dents, cracks, or deformation, replace them with new ones. Concerning parts removed for inspection, replacement with new parts and cautionary points for working, refer to appropriate INDIVIDUAL COMPONENT SERVICE, P.52B-32.

#### FRONT IMPACT SENSORS

E52BF23AA

E52BF24AA

- 1. Check radiator support panel for deformities or rust.
- Check front impact sensor for dents, cracks deformities 2. or rust.
- 3. Check sensor harnesses for binds, connectors for damage, and terminals for deformities.

# **SRS DIAGNOSIS UNIT (SDU)**

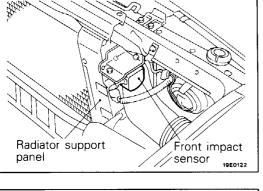
1. Check SDU case and brackets for dents, cracks or deformities.

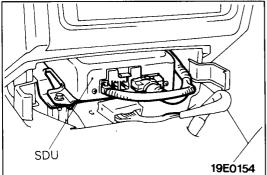
2. Check connectors and lock lever for damage, and terminals for deformities.

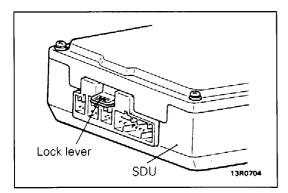
# **AIR BAG MODULE**

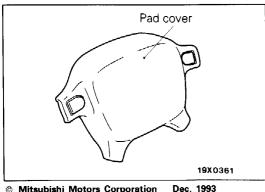
# E52BF25AA

1. Check pad cover for dents, cracks or deformities.

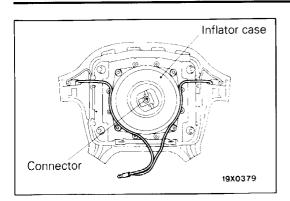








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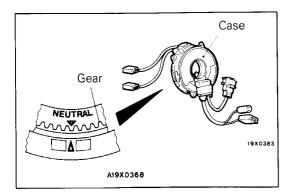


- 52B-31
- 2. Check connector for damage, terminals deformities, and harness for binds.
- Check air bag inflator case for dents, cracks or deformities.
   Install air bag module to steering wheel to check fit or alignment with the wheel.

# CLOCK SPRING

#### E52BF26AA

To SRS diagnosis unit To air bag module



1. Check clock spring connectors and protective tube for damage, and terminals for deformities.

2. Visually check the case and the gear for damage.

#### STEERING WHEEL, STEERING COLUMN AND IN-TERMEDIATE JOINT

- 1. Check wiring harness (built into steering wheel) and connectors for damage, and terminals for deformities.
- 2. Install air bag module to check fit or alignment with steering wheel.
- 3. Check steering wheel for noise, binds or difficult operation and excessive free play.

#### HARNESS CONNECTOR (BODY AND FRONT WIR-ING HARNESS) E52BF28AA

Check harnesses for binding, connectors for damage, poor connections, and terminals for deformities. (Refer to P.52B-3.)

# INDIVIDUAL COMPONENT SERVICE

If the SRS components are to be removed or replaced as a result of maintenance, troubleshooting, etc., follow each procedure (P.52B-33 – P.52B-43.)

#### Caution

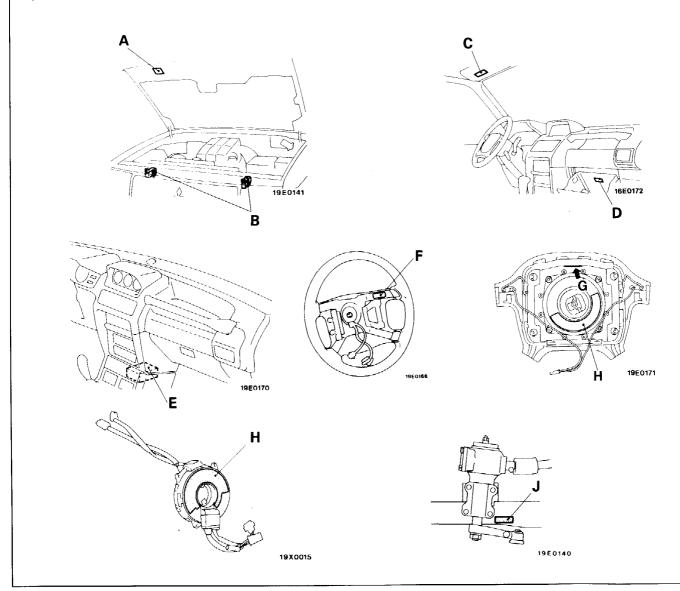
- 1. SRS components should not be subjected to heat over 93°C, so remove the front impact sensors, SRS diagnosis unit and air bag module and clock spring before drying or baking the vehicle after painting. Recheck SRS system operability after re-installing them.
- 2. If the SRS components are removed for the purpose of check, sheet metal repair, painting, etc., they should be stored in a clean, dry place until they are reinstalled.

# WARNING/CAUTION LABELS

#### E52BF41AA

A number of caution labels relating to the SRS are found in the vehicle, as shown in the following illustration. Follow label instructions when servicing SRS.

If labels are dirty or damaged, replace them with new ones.



E52BF40AA

# FRONT IMPACT SENSORS

N52BG00AA

52B-33

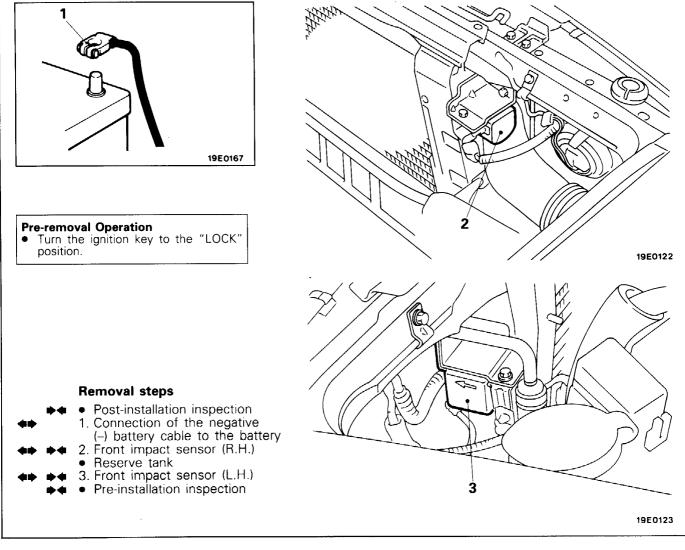
#### Caution

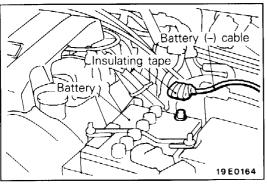
- 1. Never repair or disassemble a front impact sensor. If faulty, replace it.
- 2. Handle the front impact sensors very carefully, taking care not to drop them or subject them to impact. If a sensor is seen to be

dented, cracked, deformed or rusted, replace it with a new one.

3. Replace sensors with new ones after the air bags have deployed.

#### **REMOVAL AND INSTALLATION**





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#### SERVICE POINTS OF REMOVAL

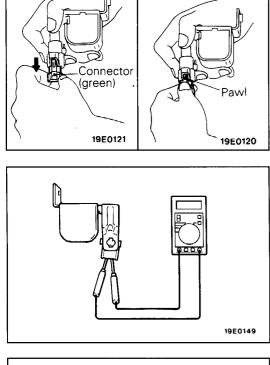
1. DISCONNECTION OF THE NEGATIVE (-) BATTERY CABLE FROM THE BATTERY

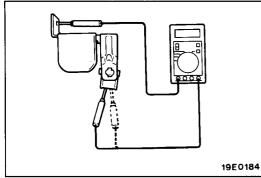
Disconnect the negative battery cable from the battery and tape and terminal.

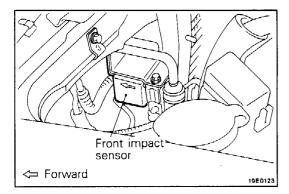
Caution

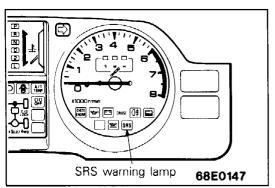
Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P.52B-4.)

PWJE9086-E









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#### 2. REMOVAL OF FRONT IMPACT SENSOR (R.H.)/ 3. FRONT IMPACT SENSOR (L.H.)

- (1) Slide the connector (green section) to release the lock.
- (2) Push down the pawl and disconnect the connector.

# INSPECTION

#### N52BG02AA

- (1) Check upper frame and sensor brackets for deformities or rust.
- (2) Check sensor harness for binds, connectors for damage, and terminals for deformities.
- (3) Check for dents, cracks, deformation or rust of the front impact sensor.

#### Caution

If a dent, crack, deformation or rust is detected, replace with a new sensor.

(4) Measure the resistance between terminals and check whether it is within the standard value.

#### Standard value: 2,000 $\pm$ 20 $\Omega$

#### Caution

Always replace the sensor with a new one if the resistance is not within the standard value.

(5) Check for continuity between the terminal and the bracket. If there is continuity, it indicates a poor insulation. In that case, replace the sensor.

# SERVICE POINT OF INSTALLATION PRE-INSTALLATION INSPECTION

N52BG04AA

To mount the new front impact sensor, visually check it and measure the resistance between the terminals. (Refer to the previous item "INSPECTION")

#### 3. INSTALLATION OF FRONT IMPACT SENSOR (L.H.)/ 2. FRONT IMPACT SENSOR (R.H.)

- (1) Securely connect the connector.
- (2) Set front impact sensor towards the front of the vehicle as shown by the arrow in the illustration, and install it securely.

#### Caution

The SRS may not activate properly if a front impact sensor is not installed properly, which could result in the SRS system not operating properly during a collision.

#### POST-INSTALLATION INSPECTION

Reconnect the negative battery terminal. Turn the ignition key to the "ON" position. Does the "SRS" warning lamp illuminate for about 7 seconds, turn OFF and then remain OFF for at least 45 seconds? If yes, SRS system is functioning properly. If no, consult page 52B-7.

PWJE9086-F

# SRS DIAGNOSIS UNIT (SDU)

N52BH00AA

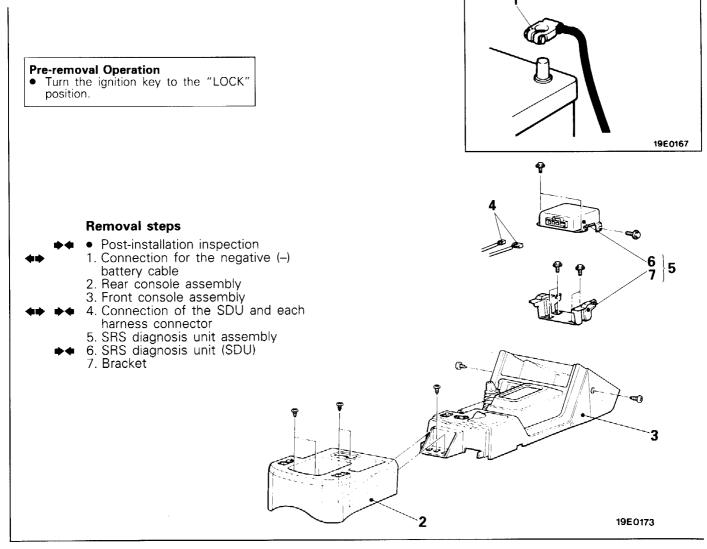
52B-35

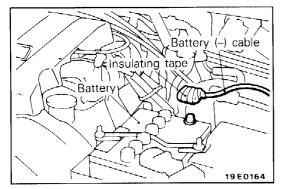
#### Caution

- 1. Never attempt to disassemble or repair the SDU. If faulty, replace it.
- 2. Do not drop or subject the SDU to impact or vibration. If dents, cracking, deformation, or rust are discovered on the SDU, replace it with a new SDU. Discard the old one.

#### **REMOVAL AND INSTALLATION**

- 3. After deployment of the air bags, replace the SDU with a new one.
- 4. Never use an ohmmeter on or near the SDU, and use only the special test equipment described on P.52B-5.





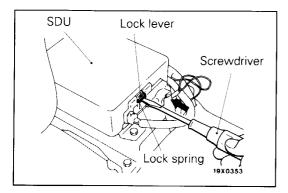
#### SERVICE POINTS OF REMOVAL

1. DISCONNECTION OF THE NEGATIVE (-) BATTERY CABLE FROM THE BATTERY

Disconnect the negative battery cable from the battery and tape and terminal.

#### Caution

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P.52B-4.)



#### 4. DISCONNECTION OF THE SDU AND EACH HAR-NESS CONNECTOR

 Place a flat-tipped (-) screwdriver against the lock spring (metal portion) of the SDU connector lock lever, and push the spring horizontally toward the inside of the unit.

#### Caution

- 1. Do not use excessive force to raise the lock lever (green).
- 2. Do not insert the screwdriver into the gap between the lock lever (green) and the lock spring (metal portion.)
- (2) While pushing the locks of each connector downwards, remove each connector from the SDU.

#### Caution

Because a double lock mechanism is employed for the SDU connectors, be careful not to exert undue force to remove the connectors, as this will damage them.

#### **INSPECTION**

#### E52BH02AA

- Check the SDU case and brackets for dents, cracks or deformities.
- Check connectors and lock lever for damage, and terminals for deformities.

#### Caution

If a dent, cracks, deformation or rust discovered, replace the SDU with a new one.

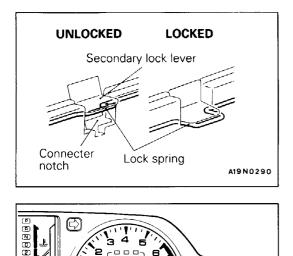
#### NOTE

For checking of the SDU other than described above, refer to the section concerning troubleshooting. (Refer to P.52B-7.)

#### **SERVICE POINTS OF INSTALLATION** 6. INSTALLATION OF SRS DIAGNOSIS UNIT (SDU)

#### Caution

The SRS may not activate if SDU is not installed properly, which could result in serious injury or death to the vehicle's driver.



SRS warning lamp

68E0147

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# 4. CONNECTION OF THE SDU AND EACH HARNESS CONNECTOR

After connecting each harness connector securely and correctly to the SDU, be sure to press down the lock lever of the SDU.

#### POST INSTALLATION INSPECTION

Reconnect the negative battery terminal. Turn the ignition key to the "ON" position. Does the "SRS" warning lamp illuminated for about 7 seconds, turn OFF and then remain extinguished for at least 45 seconds? If yes, SRS system is functioning properly. If no, consult page 52B-7.)

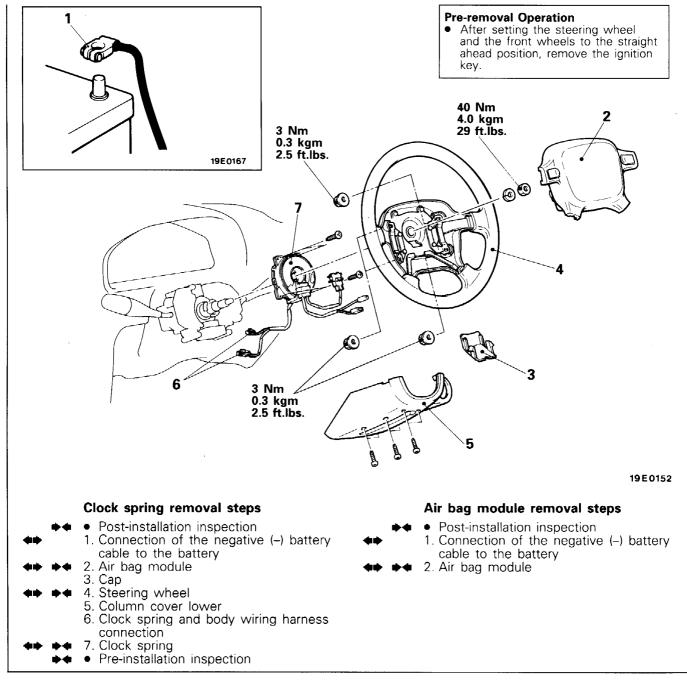
# AIR BAG MODULES AND CLOCK SPRING

#### Caution

- 1. Never attempt to disassemble or repair the air bag module or clock spring. If faulty, replace it.
- 2. Do not drop the air bag module or clock spring or allow contact with water, grease or oil. Replace it if a dent, crack, deformation or rust are detected.
- 3. The air bag modules should be stored on a flat surface and placed so that the pad surface is facing upward.

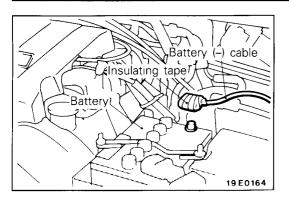
Do not place anything on top of the air bag modules.

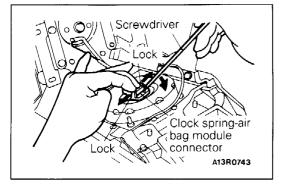
- 4. Do not expose the air bag module to temperature over 93°C (200°F).
- 5. After deployment of an air bag, replace the clock spring with a new one.
- 6. Wear gloves and safety glasses when handling an air bag that has deployed.
- An undeployed air bag module should only be disposed of in accordance with the procedures P.52B-44 – P.52B-47.

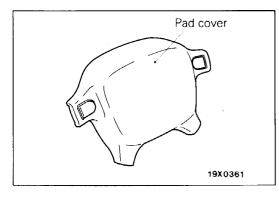


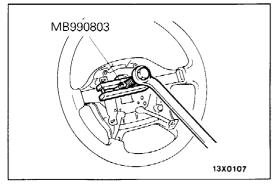
# **REMOVAL AND INSTALLATION**

N52BI00AA









#### SERVICE POINTS OF REMOVAL

1. DISCONNECTION OF THE NEGATIVE (--) BATTERY CABLE FROM THE BATTERY

Disconnect the negative battery cable and tape the terminal. **Caution** 

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P.52B-4.)

#### 2. REMOVAL OF AIR BAG MODULE

- (1) Remove the air bag module mounting nut using a socket wrench from the back side.
- (2) When disconnecting the connector of the clock spring from the air bag module, press the air bag's lock toward the outer side to spread it open. Use a screwdriver, as shown in the figure at the left, to pry so as to remove the connector gently.

#### Caution

- 1. When disconnection the air bag module-clock spring connector, take care not to apply excessive force to it.
- 2. The removed air bag module should be stored in a clean, dry place with the pad cover face up.

#### 4. REMOVAL OF STEERING WHEEL

#### Caution

Do not hammer on the steering wheel. Doing so may damage the collapsible column mechanism.

#### INSPECTION

E52BI02AA

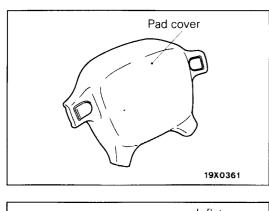
#### AIR BAG MODULE

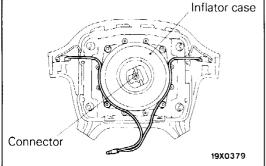
If any improper part is found during the following inspection, replace the air bag module with a new one.

Dispose of the old one according to the specified procedure. (Refer to P.52B-44.)

#### Caution

Never attempt to measure the circuit resistance of the air bag module (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental air bag deployment will result in serious personal injury.





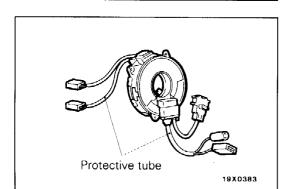
A 809

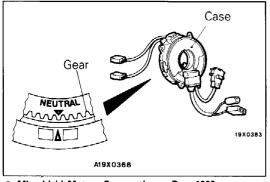
13E0117

Air bag module

(1) Check pad cover for dents, cracks or deformities.

- (2) Check the air bag module for denting, cracking or deformation.
- (3) Check hooks and connectors for damage, terminals for deformities, and harness for binds.
- (4) Check air bag inflator case for dents, cracks or deformities.
- (5)Install the air bag module to steering wheel to check fit or alignment with the wheel.





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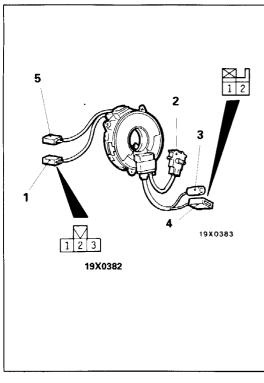
#### CLOCK SPRING

#### E52BI02BA

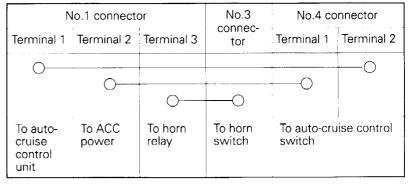
If, as result of following checks, even one abnormal point is discovered, replace the clock spring with a new one.

- (1) Check connectors and protective tube for damage, and terminals for deformities.
- (2) Visually check the case and the gears for damage.

PWJE9086-E



(3) Check for continuity between the No.1 connector of the clock spring and connectors No.3 and 4



NOTE

O-O indicates that there is continuity between the terminal.

- #3 #5 A19X0483 Clock spring Clock spring connector 5 connector 2 View A 19X0383 SRS check connector #5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 Clock spring Clock spring connector 5 connector 2 19X0545
- (4) Check of resistance between the terminals.
  - a. Joint the No. 2 connector and No. 5 connector of the clock spring to connector # 4 and connector # 3, respectively, of the SRS Check Harness.

#### NOTE

When joining SRS Check Harness connector # 4, align its white paint with the hollow portion of the No.2 connector of the clock spring.

b. Check for continuity between terminal 1 and terminal 22, and terminal 2 and terminal 21, of SRS Check Harness connector # 5, using a digital multi-meter.

#### Standard value: less than 0.4 $\Omega$

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# SERVICE POINTS OF INSTALLATION

E52BI04AA

(1) When installing the new air bag module and clock spring, refer to "INSPECTION"

#### Caution

Dispose of an air bag module only according to the specified procedure. (Refer to P.52B-44.)

- (2) Connect the battery (-) terminal.
- (3) Connect the MUT-II to the diagnosis connector (16-pin) located at the right or left side of the junction block.

#### Caution

# Make certain that the ignition switch is OFF when the MUT-II is connected or disconnected.

- (4) Reconnect negative terminal of battery, and turn the ignition key to the "ON" position.
- (5) Conduct self-diagnosis using the MUT-II to ensure entire SRS operates properly, except open circuit of air bag module (Diagnosis code No.22). (Refer to P.52B-7.)
- (6) Turn the ignition key to the "LOCK" position, disconnect the negative battery cable and tape the terminal.

#### Caution

14E0188

cable

19 E 0 164

Battery

1

nsulating tape

Batterv

Wait at least 60 seconds after disconnecting the battery cable before doing any further work. (Refer to P.52B-4.)

# Mating marks

#### 7. INSTALLATION OF CLOCK SPRING

Align the mating mark and "NEUTRAL" position indicator of the clock spring, and, after turning the front wheels to the straight-ahead position, install the clock spring to the column switch.

#### Caution

If the clock spring's mating mark is not properly aligned, the steering wheel may not be completely rotational during a turn, or the flat cable within the clock spring may be severed, obstructing normal operation of the SRS and possibly leading to serious injury to the vehicle's driver.

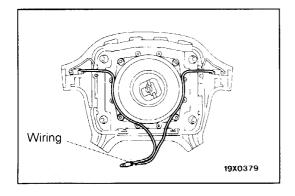
#### 4. INSTALLATION OF STEERING WHEEL

(1) Before installing the steering wheel, be sure to first turn the vehicle's front wheels to the straight-ahead position and align the mating mark and "NEUTRAL" position indicator of the clock spring.

#### Caution

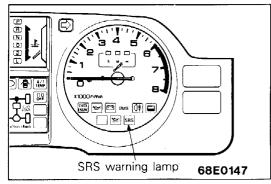
Be sure when installing the steering wheel, that the harness of the clock spring does not become caught or tangled.

(2) After clamping, turn the steering wheel all the way in both directions to confirm that steering is normal.



#### 2. INSTALLATION OF AIR BAG MODULE

Install the air bag module, taking care that no wiring is caught by it.



#### POST-INSTALLATION INSPECTION

- (1) After installing the clock spring, the steering wheel, the column covers and the air bag module, check steering wheel of noise, binds or difficult operation.
- (2) Reconnect the negative battery terminal. Turn the ignition key to the "ON" position. Does the "SRS" warning lamp illuminate for about 7 seconds, turn OFF and then remain extinguished for at least 45 seconds? If yes, SRS system is functioning properly. If no. consult page 52B-7.)

# AIR BAG MODULE DISPOSAL PROCEDURES

E52BF50AA

Before either disposing of a vehicle equipped with an air bag, or prior to disposing of the air bag module, be sure to first follow the procedures described below to and deploy the air bag.

#### UNDEPLOYED AIR BAG MODULE DISPOSAL

E52BF51AA

#### Caution

 If the vehicle is to be scrapped, or otherwise disposed of, deploy the air bag inside the vehicle.
 If the vehicle will continue to be operated and only

the air bag module is to be disposed of, deploy the air bag outside the vehicle.

- 2. Since a large amount of smoke is produced when the air bag is deployed, select a well-ventilated site. Moreover, never attempt the test near a smoke sensor.
- 3. Since there is a loud noise when the air bag is deployed, avoid residental areas Whenever possible. If anyone is nearby, give warning of the impending noise.

#### DEPLOYMENT INSIDE THE VEHICLE

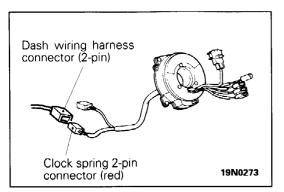
E52BF51BA

#### (when disposing a vehicle)

- (1) Open all windows and doors of the vehicle. Move the vehicle to an isolated spot.
- (2) Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.

#### Caution

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to P.52B-4.)

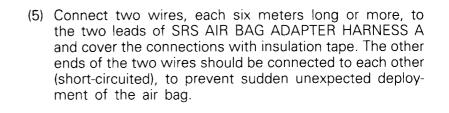


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- (3) Remove the steering column cover lower.
- (4) Remove the connection between the clock spring 2-pin connector (red) and the dash wiring harness connector. NOTE

If the clock spring connector is disconnected from the dash wiring harness, both electrodes of the clock spring connector will be automatically shorted to prevent unintended deployment of the air bag due to static electricity, etc.

PWJE9086-E



(6) Connect the clock spring 2-pin connector (red) to SRS air bag adapter harness A and pass the deployment wires out of the vehicle.

(7) At a location as far away from the vehicle as possible, disconnect the two connected wires from each other, and connect them to the two terminals of the battery (removed from the vehicle) to deploy the air bag.

#### Caution

- 1. Before deploying the air bag in this manner, first check to be sure that there is no one in or near the vehicle. Wear safety glasses.
- 2. The inflator will be quite hot immediately following the deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it.

Although not poisonous, do not inhale gas from air bag deployment.

See Deployed Air Bag Module Disposal Procedures (P.52B-47.) for post-deployment handling instructions.

3. If the air bag module fails to deploy when the procedures above are followed, do not go near the module.

# Contact your local distributor.

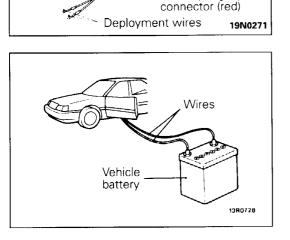
(8) Dispose of the air bag module after deployment according to the Deployed Air Bag Module Disposal Procedures. (Refer to P.52B-47.)

# DEPLOYMENT OUTSIDE THE VEHICLE

E52BF51CA

#### Caution

- 1. Should be carried out in a wide, flat area at least 6 m away from obstacles and other people.
- 2. Do not perform deployment outside, if a strong wind is blowing, and if there is even a slight breeze, the air bag module should be placed and deployed downwind from the battery.



n PN

Connection

6 m

long or

13R0733

more

Two wires

Clock spring 2-pin

Insulation

tape

SRS AIR BAG

HARNESS A

SRS air bag adapter

harness A

MB686560

MB686560

ADAPTER

Two wires

SRS AIR BAG

ADAPTER HARNESS B

MB628919

Disconnect the negative (-) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle

#### Caution

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to P.52B-4.)

(2) Remove the air bag module from the vehicle. (Refer to P.52B-38.)

#### Caution

The air bag module should be stored on a flat surface and placed so that the pad cover face up. Do not place anything on top of it.

(3) Connect two wires, each six meters long or more, to the two leads of SRS AIR BAG ADAPTER HARNESS B, and cover the connections with insulation tape. The other ends of the two wires should be connected to each other (short-circuited), to prevent sudden unexpected deployment of the air bag.

(4) Install nuts that are no longer needed to the four bolts

(5) Take the SRS air bag adaptor harness B that is connected to the wires, pass it beneath the old tyre that is attached to the wheel, and connect it to the air bag module.

thick wire to secure to the wheel.

on the rear side of the air bag module, and tie on some

Nuts

Insulation tape

Pad cover

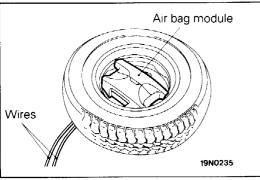
19X0361

Connection

6 m

13R0752

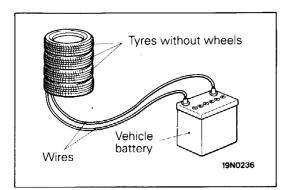
long or more



- - (6) Insert the air bag module into the wheel on which the old tyre has been installed, and secure it with the wires that are tied to the bolts, with the air bag facing upward. Caution

Leave some space below the wheel for the adaptor harness. If there is no space, the reaction when the air bag deploys could damage the adaptor harness.

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- (7) Place three old tyres with no wheels on top of the tyre secured to the air bag module.
- (8) At a location as far away from the air bag module as possible, and from a shielded position, if possible, disconnect the two connected wires from each other and connect them to the two terminals of the battery (removed from the vehicle) to deploy the air bag.

#### Caution

- 1. Before deployment, check carefully to be sure that no one is nearby.
- 2. The inflator will be quite hot immediately following deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although not poisonous, do not inhale gas from air bag deployment. See Deployed Air Bag Module Disposal Procedures (as shown below) for post-deployment handling instructions.
- 3. If the air bag module fails to deploy when the procedures above are followed, do not go near the module. Contact your local distributor.
- (9) Dispose of the air bag module after deployment according to the Deployed Air Bag Module Disposal Procedures.

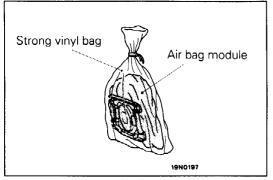
#### DEPLOYED AIR BAG MODULE DISPOSAL PROCE-DURES

After deployment, the air bag module should be disposed of in the same manner as any other scrap parts, except that the following points should be carefully noted during disposal.

- (1) The inflator will be quite hot immediately following deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it.
- (2) Do not put water or oil on the air bag after deployment.
- (3) There may be, adhered to the deployed air bag module, material that could irritate the eyes and/or skin, so wear gloves and safety glasses when handling a deployed air bag module. IF DESPITE THESE PRECAUTIONS, THE MATERIAL DOES, GET INTO THE EYES OR ON THE SKIN, IMMEDIATELY RINSE THE AFFECTED AREA WITH A LARGE AMOUNT OF CLEAN WATER. IE ANY IBBITATION DEVELOPS. SEEK MEDICAL ATTEN-

IF ANY IRRITATION DEVELOPS, SEEK MEDICAL ATTEN-TION.

- (4) Tightly seal the air bag module in a strong vinyl bag for disposal.
- (5) Be sure to always wash your hands after completing this operation.



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