

# RESTRAINTS

**08**  
SECTION

---

ON-BOARD DIAGNOSTIC . . . . .	08-02	AIR BAG SYSTEM . . . . .	08-10
SYMPTOM		SEAT BELT . . . . .	08-11
TROUBLESHOOTING . . . . .	08-03	SERVICE TOOLS . . . . .	08-60

---

## 08-02 ON-BOARD DIAGNOSTIC

AIR BAG SYSTEM WIRING DIAGRAM. . . . .	08-02-2	DTC 11 . . . . .	08-02-13
FOREWORD . . . . .	08-02-2	DTC 12 . . . . .	08-02-15
Flowchart . . . . .	08-02-2	DTC 22 . . . . .	08-02-17
Post-repair Operation . . . . .	08-02-4	DTC 25 . . . . .	08-02-20
DTC TABLE . . . . .	08-02-4	DTC 26 . . . . .	08-02-22
DTC 01 . . . . .	08-02-6	DTC 32 . . . . .	08-02-25
DTC 02 . . . . .	08-02-7	DTC 35 . . . . .	08-02-28
DTC 03 . . . . .	08-02-8	DTC 37 . . . . .	08-02-30
DTC 06 . . . . .	08-02-9	DTC 91 . . . . .	08-02-33
DTC 07 . . . . .	08-02-12		

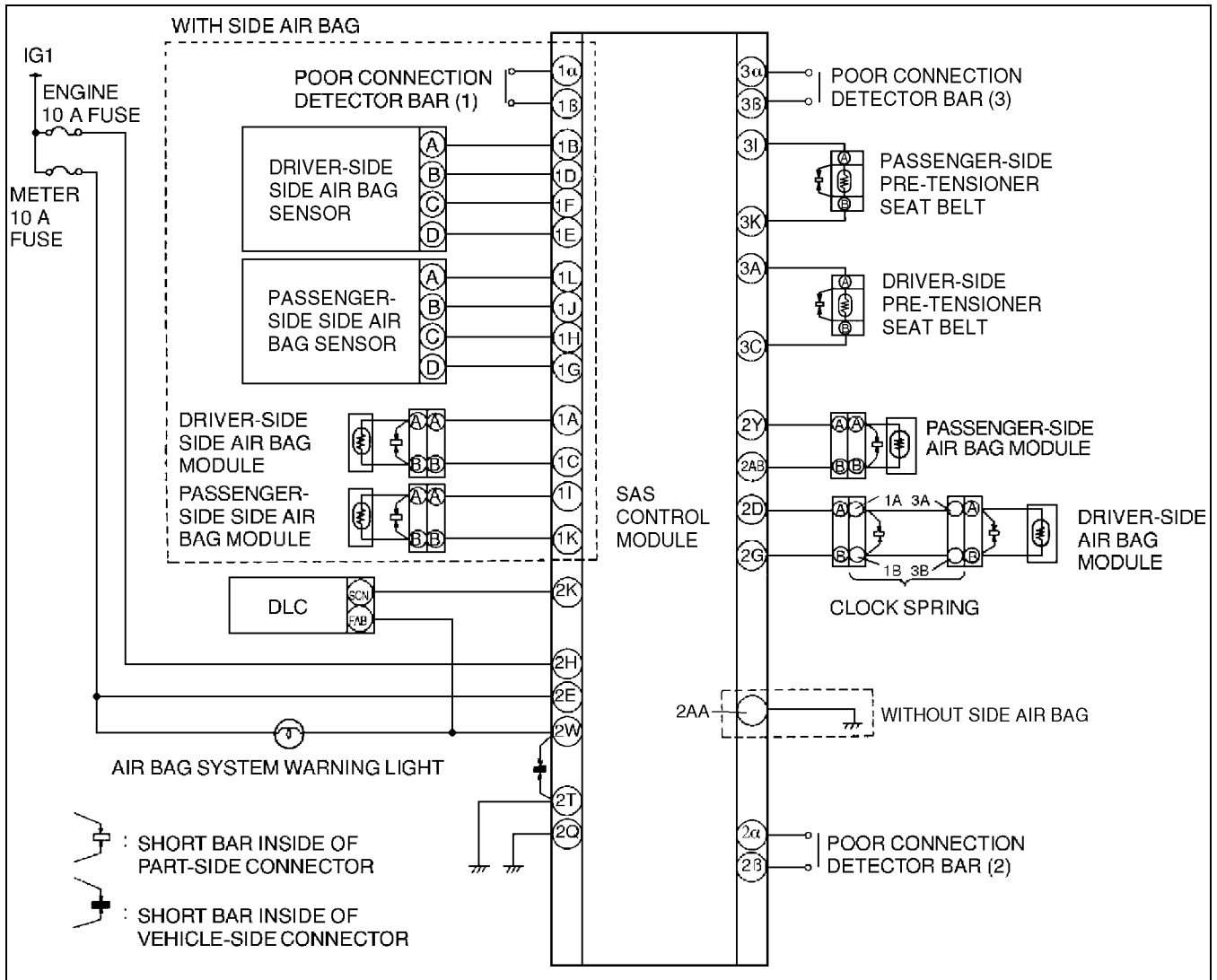
---

08-02

# ON-BOARD DIAGNOSTIC

## AIR BAG SYSTEM WIRING DIAGRAM

A3U080201046W01



Z3U0802W001

### FOREWORD

- Use the following flowchart to verify the cause of the trouble.

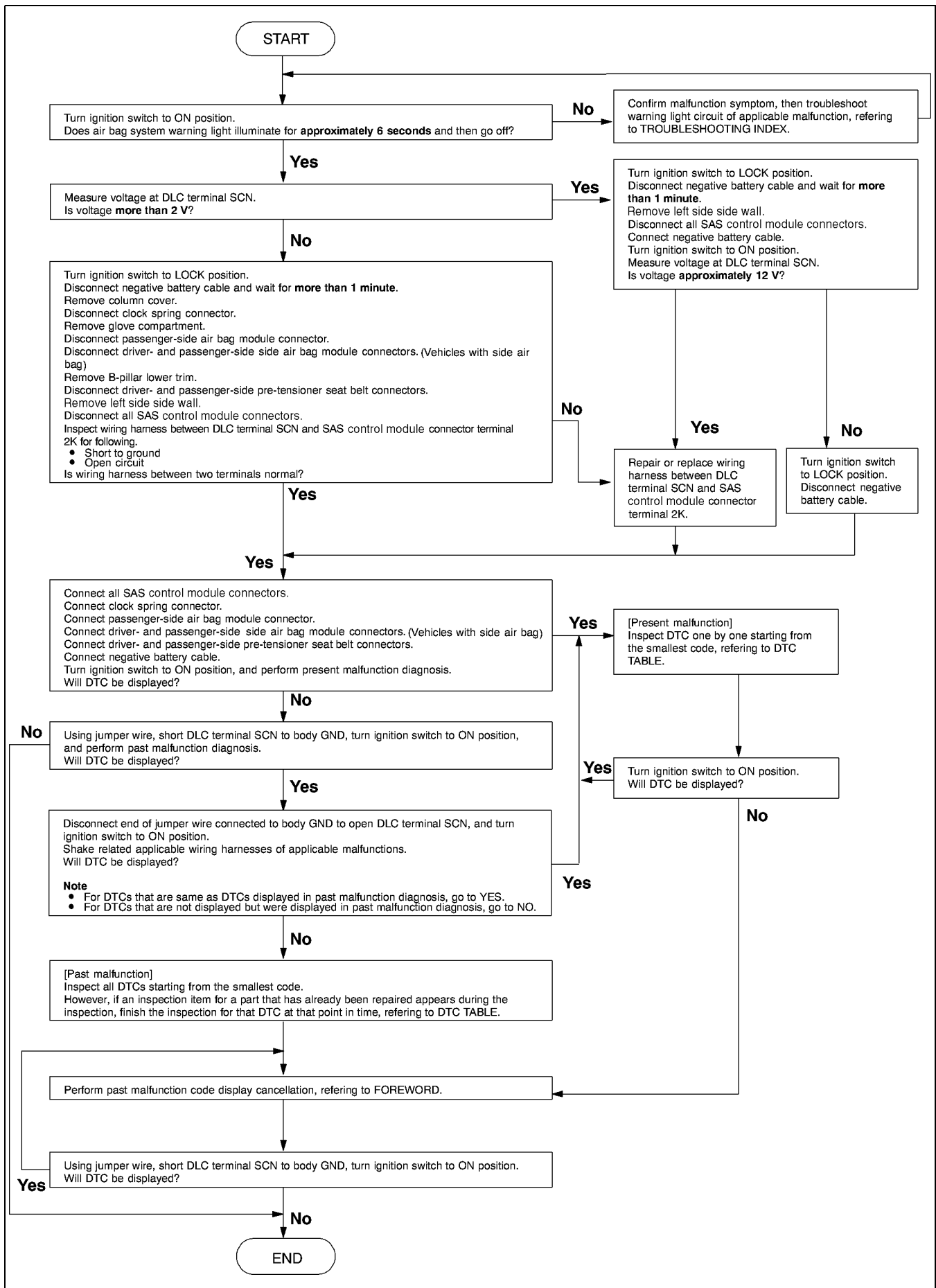
A3U080201046W02

### Flowchart

#### Note

- While performing the inspection of the past malfunction code, the applicable DTCs may be added to memory by removing or disconnecting the related parts. Inspect only the DTCs that were indicated before inspecting.
- When DTCs of present malfunction are no longer output after present and/or past malfunctions have been repaired, be sure to perform past malfunction display cancellation to prevent repair of malfunctions that have already been repaired.

# ON-BOARD DIAGNOSTIC



08-02

# ON-BOARD DIAGNOSTIC

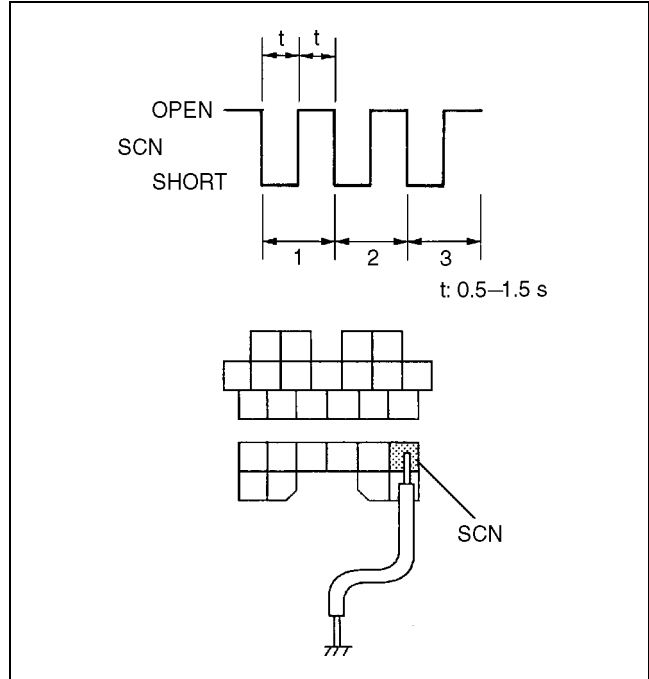
## Post-repair Operation

### Past malfunction code display cancellation

#### Caution

- Connecting the wrong DLC terminal may possibly cause a malfunction. Carefully connect the specified terminal only.

1. Turn the ignition switch to the ON position.
2. Wait until the air bag system warning light illuminates **approximately 6 seconds** and goes off.
3. Perform both the following steps alternately **three times** each at **0.5—1.5 seconds** intervals.
  - (1) Use a jumper wire to short the DLC terminal SCN to body GND.
  - (2) Disconnect the jumper wire from body GND.
4. If the DTCs are displayed, wait until they disappear.
5. Using a jumper wire, short the DLC terminal SCN to body GND to verify that the DTCs of the past malfunction are not displayed.
  - If the DTCs are still displayed, perform the past malfunction display cancellation again.
6. Turn the ignition switch to the LOCK position.
7. Disconnect the jumper wire from the DLC.



ZLU0802W001

## DTC TABLE

A3U080201046W03











- DTCs are common for present and past malfunction diagnosis.

#### Note

- When DTCs not shown in the DTC table are displayed, replace the SAS control module.
- After a new SAS control module is installed, the air bag system warning light continuously flashes when the ignition switch is turned to ON position. This is the deployment authorization standby code output by the SAS control module. Perform the deployment authorization and restore the system to an operational state.
- If the air bag system warning light does not illuminate or remains illuminated when the ignition switch is turned to ON position, inspect and repair the air bag system warning light circuitry and then confirm that the air bag system warning light is operational.

DTC	Output signal	Malfunction location	Page
01		SAS control module connector poor connection	(See 08-02-6 DTC 01)
02		SAS control module	(See 08-02-7 DTC 02)
03		Power supply of SAS control module	(See 08-02-8 DTC 03)
06		Driver-side air bag module system	(See 08-02-9 DTC 06)

## ON-BOARD DIAGNOSTIC

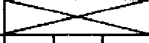
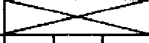
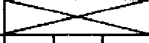
DTC	Output signal	Malfunction location	Page
07		Passenger-side air bag module system	(See 08-02-12 DTC 07)
11		Driver-side pre-tensioner seat belt system	(See 08-02-13 DTC 11)
12		Passenger-side pre-tensioner seat belt system	(See 08-02-15 DTC 12)
22		Driver-side side air bag sensor system (Internal circuit abnormal)	(See 08-02-17 DTC 22)
25		Driver-side side air bag sensor system (Communication error)	(See 08-02-20 DTC 25)
26		Driver-side side air bag module system	(See 08-02-22 DTC 26)
32		Passenger-side side air bag sensor system (Internal circuit abnormal)	(See 08-02-25 DTC 32)
35		Passenger-side side air bag sensor system (Communication error)	(See 08-02-28 DTC 35)
37		Passenger-side side air bag module system	(See 08-02-30 DTC 37)
91		Air bag system warning light system	(See 08-02-33 DTC 91)
-	Continuously flashes	Deployment authorization standby code	—

08-02

# ON-BOARD DIAGNOSTIC

DTC 01

A3U080201046W04

<b>DTC 01</b>	<b>SAS control module connector poor connection</b>																																	
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</li> </ul> <ul style="list-style-type: none"> <li>There is no continuity between poor connection detector bar terminals of SAS control module.</li> <li>Terminal 2AA of SAS control module connector is open. (Vehicles without side air bag)</li> </ul>																																	
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Poor connection of any SAS control module connectors.</li> <li>Malfunction of any SAS control module connectors.</li> <li>Open or short circuit in wiring harness between SAS control module and ground.</li> <li>SAS control module malfunction.</li> </ul>																																	
<p>SAS CONTROL MODULE CONNECTOR</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td>2AE</td><td>2AB</td><td>2Y</td><td></td><td colspan="4" style="text-align: center;"></td><td>2G</td><td>2D</td><td>2A</td> </tr> <tr> <td>2AF</td><td>2AC</td><td>2Z</td><td>2W</td><td>2T</td><td>2Q</td><td>2N</td><td>2K</td><td>2H</td><td>2E</td><td>2B</td> </tr> <tr> <td>2AG</td><td>2AD</td><td>2AA</td><td>2X</td><td>2U</td><td>2R</td><td>2O</td><td>2L</td><td>2I</td><td>2F</td><td>2C</td> </tr> </table> <p>HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)</p>		2AE	2AB	2Y						2G	2D	2A	2AF	2AC	2Z	2W	2T	2Q	2N	2K	2H	2E	2B	2AG	2AD	2AA	2X	2U	2R	2O	2L	2I	2F	2C
2AE	2AB	2Y						2G	2D	2A																								
2AF	2AC	2Z	2W	2T	2Q	2N	2K	2H	2E	2B																								
2AG	2AD	2AA	2X	2U	2R	2O	2L	2I	2F	2C																								

**Diagnostic procedure**

STEP	INSPECTION		ACTION
1	<p><b>VERIFY THAT ALL SAS CONTROL MODULE CONNECTORS ARE CONNECTED WITH SAS CONTROL MODULE</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</li> </ul> <ul style="list-style-type: none"> <li>Turn ignition switch to LOCK position.</li> <li>Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>Remove left side side wall.</li> <li>Are all SAS control module connectors securely connected?</li> </ul>	<p>Yes</p> <p>No</p>	<p>Go to next step.</p> <p>Reconnect connector properly.</p>
2	<p><b>INSPECT ALL SAS CONTROL MODULE CONNECTORS</b></p> <ul style="list-style-type: none"> <li>Remove column cover.</li> <li>Disconnect clock spring connector.</li> <li>Remove glove compartment.</li> <li>Disconnect passenger-side air bag module connector.</li> <li>Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>Remove B-pillar lower trims.</li> <li>Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>Disconnect all SAS control module connectors.</li> <li>Are poor connection detector bars of all SAS control module connectors okay?</li> </ul>	<p>Yes</p> <p>No</p>	<p>Go to next step.</p> <p>Replace wiring harnesses.</p>

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION	
3	<ul style="list-style-type: none"> <li>• Is vehicle equipped with side air bag?</li> </ul>	Yes	<b>Present malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <b>Past malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>
		No	Go to next step.
4	<b>VERIFY THAT TERMINAL 2AA OF SAS CONTROL MODULE CONNECTOR IS GROUNDED</b> <ul style="list-style-type: none"> <li>• Inspect wiring harness between terminal 2AA of SAS control module connector and ground for following.                             <ul style="list-style-type: none"> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Is wiring harness okay?</li> </ul>	Yes	<b>Present malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <b>Past malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>
		No	Replace wiring harness.

### DTC 02

A3U080201046W05

DTC 02	SAS control module
<b>DETECTION CONDITION</b>	<b>Warning</b> <ul style="list-style-type: none"> <li>• <b>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</b></li> <li>• Malfunction in SAS control module inner circuit.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• SAS control module malfunction.</li> </ul>

08-02

### Diagnostic procedure

ACTION
<ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul>

# ON-BOARD DIAGNOSTIC

DTC 03

A3U080201046W06

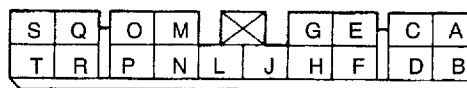
<b>DTC 03</b>	<b>Power supply of SAS control module</b>
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure</li> </ul> <ul style="list-style-type: none"> <li>• Voltage detected at SAS control module terminals 2E and 2H is <b>9 V or less</b>.</li> </ul>
<b>POSSIBLE CAUSE</b>	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>• DTC 03 is indicated when voltages in both of following wiring harnesses drop simultaneously.                             <ul style="list-style-type: none"> <li>— Wiring harness between fuse block connector (JB-01) terminal B and SAS control module connector terminal 2E.</li> <li>— Wiring harness between fuse block connector (JB-02) terminal D and SAS control module connector terminal 2H.</li> </ul> </li> </ul> <ul style="list-style-type: none"> <li>• Weak battery.</li> <li>• Malfunction in wiring harness between battery and SAS control module.</li> <li>• SAS control module malfunction.</li> </ul>

FUSE BLOCK CONNECTOR (JB-01)



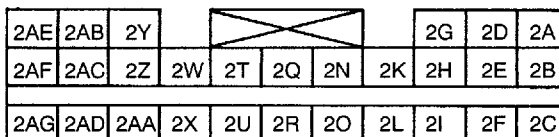
HARNESS SIDE CONNECTOR  
(VIEW FROM HARNESS SIDE)

FUSE BLOCK CONNECTOR (JB-02)



HARNESS SIDE CONNECTOR  
(VIEW FROM HARNESS SIDE)

SAS CONTROL MODULE CONNECTOR



HARNESS SIDE CONNECTOR  
(VIEW FROM HARNESS SIDE)

**Diagnostic procedure**

STEP	INSPECTION		ACTION
1	<b>INSPECT BATTERY</b> <ul style="list-style-type: none"> <li>• Measure voltage of battery.</li> <li>• Is voltage <b>more than 9 V</b>?</li> </ul>	Yes	Go to next step.
		No	Battery is weak. Inspect charge/discharge system. (See 01-17-1 BATTERY INSPECTION)
2	<b>INSPECT WIRING HARNESS BETWEEN BATTERY AND FUSE BLOCK</b> <ul style="list-style-type: none"> <li>• Remove driver-side front scuff plate.</li> <li>• Remove driver-side front side trim.</li> <li>• Remove fuse block without disconnecting connectors.</li> <li>• Turn ignition switch to ON position.</li> <li>• Measure voltage at terminals B (JB-01) and D (JB-02) of fuse block connectors.</li> <li>• Is voltage of at least either terminal <b>more than 9 V</b>?</li> </ul>	Yes	Go to next step.
		No	Repair wiring harnesses. (Battery—fuse block)



# ON-BOARD DIAGNOSTIC

STEP	INSPECTION		ACTION
3	<p><b>INSPECT WIRING HARNESS BETWEEN FUSE BLOCK AND SAS CONTROL MODULE</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Measure voltage at terminals 2E and 2H of SAS control module connector.</li> <li>• Is voltage of at least either terminal <b>more than 9 V</b>?</li> </ul>	<p>Yes</p> <p>No</p>	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul> <p>Replace wiring harness. (Fuse block-SAS control module)</p>

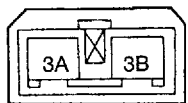
08-02

## DTC 06

A3U080201046W07

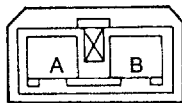
DTC 06	Driver-side air bag module system
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</b></li> </ul> <ul style="list-style-type: none"> <li>• Resistance detected between terminals 2D and 2G of SAS control module is other than <b>1.85—3.46 ohm</b>.</li> <li>• Short circuit in wiring harness related SAS control module terminal 2D or 2G.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• Driver-side air bag module malfunction.</li> <li>• Clock spring malfunction.</li> <li>• Malfunction of connectors between clock spring and SAS control module.</li> <li>• Open or short circuit in wiring harness between clock spring and SAS control module.</li> <li>• SAS control module malfunction.</li> </ul>

CLOCK SPRING



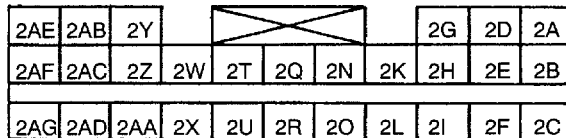
COMPONENT SIDE CONNECTOR (VIEW FROM TERMINAL SIDE)

CLOCK SPRING CONNECTOR



HARNESS SIDE CONNECTOR (VIEW FROM TERMINAL SIDE)

SAS CONTROL MODULE CONNECTOR



HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)

## ON-BOARD DIAGNOSTIC

### Diagnostic procedure

STEP	INSPECTION	ACTION	
1	<b>INSPECT SEPARATOR* OF CLOCK SPRING</b>  <b>Warning</b> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove driver-side air bag module. (See 08-10-5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION)</li> <li>• Is separator* of clock spring okay?</li> </ul>	Yes	<b>Present malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>• Go to next step.</li> </ul> <b>Past malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>• Go to Step 6.</li> </ul>
		No	Replace clock spring. (See 08-10-9 CLOCK SPRING REMOVAL/INSTALLATION)
2	<b>VERIFY WHETHER MALFUNCTION IS IN DRIVER-SIDE AIR BAG MODULE OR OTHER PARTS</b> <ul style="list-style-type: none"> <li>• Connect leads of <b>SST</b> (Fuel And Thermometer checker) or apply <b>2 ohms</b> resistor to clock spring terminals 3A and 3B.</li> <li>• Set resistance of <b>SST</b> (Fuel And Thermometer checker) to <b>2 ohms</b>.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Is DTC 06 indicated?</li> </ul>	Yes	Go to next step.
		No	Replace driver-side air bag module. (See 08-10-5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION)
3	<b>INSPECT SEPARATOR* OF CLOCK SPRING CONNECTOR</b> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Is separator* of clock spring connector okay?</li> </ul>	Yes	Go to next step.
		No	Replace wiring harness.
4	<b>VERIFY WHETHER MALFUNCTION IS IN CLOCK SPRING OR OTHER PARTS</b> <ul style="list-style-type: none"> <li>• Connect leads of <b>SST</b> (Fuel And Thermometer checker) or apply <b>2 ohms</b> resistor clock spring connector terminals A and B.</li> <li>• Set resistance of <b>SST</b> (Fuel And Thermometer checker) to <b>2 ohms</b>.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Is DTC 06 indicated?</li> </ul>	Yes	Go to next step.
		No	Replace clock spring. (See 08-10-9 CLOCK SPRING REMOVAL/INSTALLATION)

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION	
5	<b>INSPECT WIRING HARNESS BETWEEN CLOCK SPRING AND SAS CONTROL MODULE</b> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Are wiring harnesses okay?</li> </ul>	Yes	Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)
		No	Replace wiring harnesses.
6	<b>INSPECT SEPARATOR* OF CLOCK SPRING CONNECTOR</b> <ul style="list-style-type: none"> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Is separator* of clock spring connector okay?</li> </ul>	Yes	Go to next step.
		No	Replace wiring harness.
7	<b>INSPECT CLOCK SPRING</b> <ul style="list-style-type: none"> <li>• Remove clock spring. (See 08-10-9 CLOCK SPRING REMOVAL/INSTALLATION)</li> <li>• Inspect clock spring. (See 08-10-10 CLOCK SPRING INSPECTION)</li> <li>• Is clock spring okay?</li> </ul>	Yes	Go to next step.
		No	Replace wiring harness.
8	<b>INSPECT WIRING HARNESS BETWEEN CLOCK SPRING AND SAS CONTROL MODULE</b> <ul style="list-style-type: none"> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Inspect wiring harness between terminal 2D of SAS control module connector and terminal A of clock spring connector, and between terminal 2G of SAS control module connector and terminal B of clock spring connector for following. <ul style="list-style-type: none"> <li>— Short to ground</li> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Are wiring harnesses okay?</li> </ul>	Yes	Replace driver-side air bag module. (See 08-10-5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION)
		No	Replace wiring harness.

08-02

\* : Consists of 2 parts of female connector that separate the short bar from the terminal when connected to the male connector.

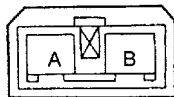
# ON-BOARD DIAGNOSTIC

DTC 07

A3U080201046W08

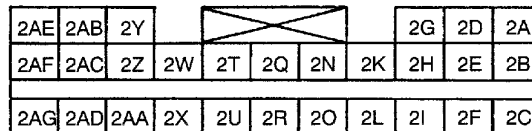
<b>DTC 07</b>	<b>Passenger-side air bag module system</b>
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</li> </ul> <ul style="list-style-type: none"> <li>Resistance detected between terminals 2Y and 2AB of SAS control module is other than <b>1.63—2.71 ohm</b>.</li> <li>Short circuit in wiring harness related SAS control module terminal 2Y or 2AB.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Passenger-side air bag module malfunction.</li> <li>Malfunction of connectors between passenger-side air bag module and SAS control module.</li> <li>Open or short circuit in wiring harness between passenger-side air bag module and SAS control module.</li> <li>SAS control module malfunction.</li> </ul>

PASSENGER-SIDE AIR BAG MODULE CONNECTOR



HARNESS SIDE CONNECTOR (VIEW FROM TERMINAL SIDE)

SAS CONTROL MODULE CONNECTOR



HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)

**Diagnostic procedure**

STEP	INSPECTION	Yes	ACTION
1	<p><b>INSPECT SEPARATOR* OF PASSENGER-SIDE AIR BAG MODULE CONNECTOR</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</li> </ul> <ul style="list-style-type: none"> <li>Turn ignition switch to LOCK position.</li> <li>Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>Remove glove compartment.</li> <li>Disconnect passenger-side air bag module connector.</li> <li>Is separator* of passenger-side air bag module connector okay?</li> </ul>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>Go to Step 3.</li> </ul>
		No	Replace wiring harness.
2	<p><b>VERIFY WHETHER MALFUNCTION IS IN PASSENGER-SIDE AIR BAG MODULE OR OTHER PARTS</b></p> <ul style="list-style-type: none"> <li>Connect leads of <b>SST</b> (Fuel And Thermometer checker) or apply <b>2 ohms</b> resistor to passenger-side air bag module connector terminals A and B.</li> <li>Set resistance of <b>SST</b> (Fuel And Thermometer checker) to <b>2 ohms</b>.</li> <li>Connect negative battery cable.</li> <li>Turn ignition switch to ON position.</li> <li>Is DTC 07 indicated?</li> </ul>	Yes	Go to next step.
		No	Replace passenger-side air bag module. (See 08-10-6 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION)

# ON-BOARD DIAGNOSTIC

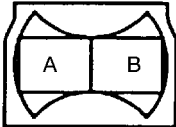
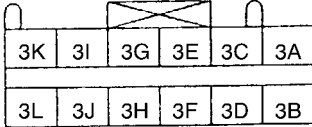
STEP	INSPECTION		ACTION
3	<b>INSPECT WIRING HARNESS BETWEEN PASSENGER-SIDE AIR BAG MODULE AND SAS CONTROL MODULE</b> <ul style="list-style-type: none"> <li>Turn ignition switch to LOCK position.</li> <li>Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>Remove column cover.</li> <li>Disconnect clock spring connector.</li> <li>Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>Remove B-pillar lower trims.</li> <li>Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>Remove left side side wall.</li> <li>Disconnect all SAS control module connectors.</li> <li>Inspect wiring harness between terminal 2Y of SAS control module connector and terminal A of passenger-side air bag module connector, and between terminal 2AB of SAS control module connector and terminal B of passenger-side air bag module connector for following.                             <ul style="list-style-type: none"> <li>— Short to ground</li> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>Are wiring harnesses okay?</li> </ul>	Yes	<b>Present malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <b>Past malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>Replace passenger-side air bag module. (See 08–10–6 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION)</li> </ul>
		No	Replace wiring harness.

08-02

\* : Consists of the 2 parts of the female connector that separate the short bar from the terminal when connected to the male connector.

## DTC 11

A3U080201046W09

DTC 11	Driver-side pre-tensioner seat belt system
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</li> </ul> <ul style="list-style-type: none"> <li>Abnormal resistance (other than <b>1.83—2.81 ohm</b>) detected in driver-side pre-tensioner seat belt circuit.</li> <li>Short circuit in wiring harness related terminal 3A or 3C of SAS control module.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Driver-side pre-tensioner seat belt malfunction.</li> <li>Malfunction of connectors between driver-side pre-tensioner seat belt and SAS control module.</li> <li>Open or short circuit in wiring harness between driver-side pre-tensioner seat belt and SAS control module.</li> <li>SAS control module malfunction.</li> </ul>
<p>DRIVER-SIDE PRE-TENSIONER SEAT BELT CONNECTOR</p>  <p>HARNESS SIDE CONNECTOR (VIEW FROM TERMINAL SIDE)</p>	<p>SAS CONTROL MODULE CONNECTOR</p>  <p>HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)</p>

## ON-BOARD DIAGNOSTIC

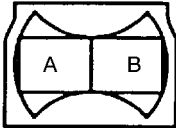
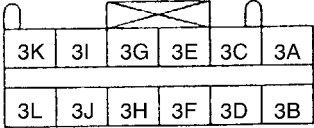
### Diagnostic procedure

STEP	INSPECTION	ACTION
1	<p><b>INSPECT DRIVER-SIDE PRE-TENSIONER SEAT BELT CONNECTOR</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove driver-side B-pillar lower trim.</li> <li>• Disconnect driver-side pre-tensioner seat belt connector.</li> <li>• Is there cracking or chipping in driver-side pre-tensioner seat belt connector?</li> </ul>	<p>Yes: Replace wiring harness.</p> <p>No: <b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Go to Step 3.</li> </ul>
2	<p><b>VERIFY WHETHER MALFUNCTION IS IN DRIVER-SIDE PRE-TENSIONER SEAT BELT OR OTHER PARTS</b></p> <ul style="list-style-type: none"> <li>• Connect leads of <b>SST</b> (Fuel and thermometer checker) or apply <b>2 ohms</b> resistor to driver-side pre-tensioner seat belt connector terminals A and B.</li> <li>• Set resistance of <b>SST</b> (Fuel and thermometer checker) to <b>2 ohms</b>.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Is DTC 11 indicated?</li> </ul>	<p>Yes: Go to next step.</p> <p>No: Replace driver-side pre-tensioner seat belt.</p>
3	<p><b>INSPECT WIRING HARNESS BETWEEN DRIVER-SIDE PRE-TENSIONER SEAT BELT AND SAS CONTROL MODULE</b></p> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>• Remove passenger-side B-pillar lower trim.</li> <li>• Disconnect passenger-side pre-tensioner seat belt connector.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Inspect wiring harness between SAS control module connector terminal 3A and driver-side pre-tensioner seat belt connector terminal A, and between SAS control module connector terminal 3C and driver-side pre-tensioner seat belt connector terminal B for following. <ul style="list-style-type: none"> <li>— Short to ground</li> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Are wiring harnesses okay?</li> </ul>	<p>Yes: <b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace driver-side pre-tensioner seat belt.</li> </ul> <p>No: Replace wiring harness.</p>

# ON-BOARD DIAGNOSTIC

DTC 12

A3U080201046W10

<b>DTC 12</b>	<b>Passenger-side pre-tensioner seat belt system</b>
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</b></li> <li>• Abnormal resistance (other than <b>1.83—2.81 ohm</b>) detected in passenger-side pre-tensioner seat belt circuit.</li> <li>• Short circuit in wiring harness related terminal 3I or 3K of SAS control module.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• Passenger-side pre-tensioner seat belt malfunction.</li> <li>• Malfunction of connectors between passenger-side pre-tensioner seat belt and SAS control module.</li> <li>• Open or short circuit in wiring harness between passenger-side pre-tensioner seat belt and SAS control module.</li> <li>• SAS control module malfunction.</li> </ul>
<p>PASSENGER-SIDE PRE-TENSIONER SEAT BELT CONNECTOR</p>  <p>HARNESS SIDE CONNECTOR (VIEW FROM TERMINAL SIDE)</p>	<p>SAS CONTROL MODULE CONNECTOR</p>  <p>HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)</p>

08-02

**Diagnostic procedure**

STEP	INSPECTION		ACTION
1	<p><b>INSPECT PASSENGER-SIDE PRE-TENSIONER SEAT BELT CONNECTOR</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove passenger-side B-pillar lower trim.</li> <li>• Disconnect passenger-side pre-tensioner seat belt connector.</li> <li>• Is there cracking or chipping in passenger-side pre-tensioner seat belt connector?</li> </ul>	<p>Yes</p> <p>No</p>	<p>Replace wiring harness.</p> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Go to Step 3.</li> </ul>
2	<p><b>VERIFY WHETHER MALFUNCTION IS IN PASSENGER-SIDE PRE-TENSIONER SEAT BELT OR OTHER PARTS</b></p> <ul style="list-style-type: none"> <li>• Connect leads of <b>SST</b> (Fuel and thermometer checker) or apply <b>2 ohms</b> resistor to passenger-side pre-tensioner seat belt connector terminals A and B.</li> <li>• Set resistance of <b>SST</b> (Fuel and thermometer checker) to <b>2 ohms</b>.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Is DTC 12 indicated?</li> </ul>	<p>Yes</p> <p>No</p>	<p>Go to next step.</p> <p>Replace passenger-side pre-tensioner seat belt.</p>

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION				
3	<p><b>INSPECT WIRING HARNESS BETWEEN PASSENGER-SIDE PRE-TENSIONER SEAT BELT AND SAS CONTROL MODULE</b></p> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector</li> <li>• Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>• Remove driver-side B-pillar lower trim.</li> <li>• Disconnect driver-side pre-tensioner seat belt connector.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Inspect wiring harness between SAS control module connector terminal 3I and passenger-side pre-tensioner seat belt connector terminal A, and between SAS control module connector terminal 3K and passenger-side pre-tensioner seat belt connector terminal B for following. <ul style="list-style-type: none"> <li>— Short to ground</li> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Are wiring harnesses okay?</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50px;">Yes</td> <td> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace passenger-side pre-tensioner seat belt.</li> </ul> </td> </tr> <tr> <td style="text-align: center;">No</td> <td>Replace wiring harness.</td> </tr> </table>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace passenger-side pre-tensioner seat belt.</li> </ul>	No	Replace wiring harness.
Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace passenger-side pre-tensioner seat belt.</li> </ul>					
No	Replace wiring harness.					



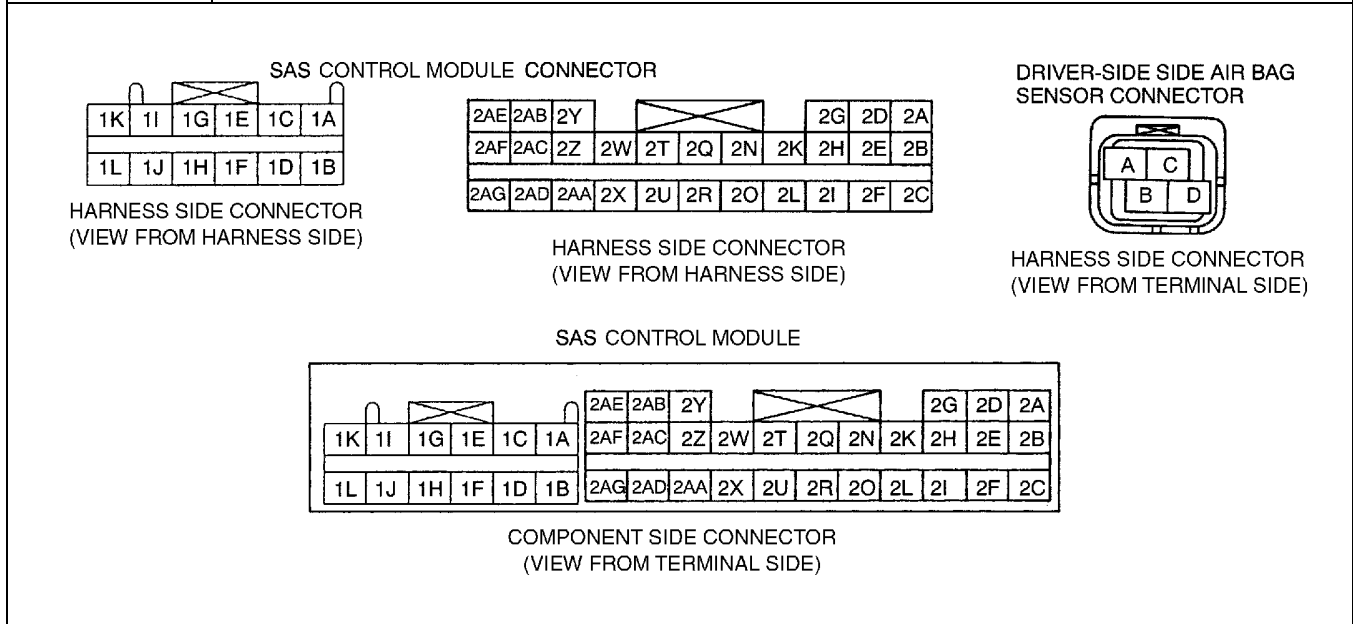
# ON-BOARD DIAGNOSTIC

DTC 22

A3U080201046W11

<b>DTC 22</b>	<b>Driver-side side air bag sensor system (Internal circuit abnormal)</b>
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</b></li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• For vehicles without side air bag, DTC 22, 25, 26, 32, 35, or 37 may be indicated concurrently. In such a case, perform only the smallest DTC troubleshooting among them.</li> </ul> <p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>• Malfunction in wiring harness between driver-side side air bag sensor and SAS control module.</li> <li>• Malfunction in driver-side side air bag sensor circuit.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>• Terminal 2AA of SAS control module connector is open.</li> </ul>

<b>POSSIBLE CAUSE</b>	<p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>• Driver-side side air bag sensor malfunction.</li> <li>• Open or short circuit in wiring harness between driver-side side air bag sensor and SAS control module.</li> <li>• SAS control module malfunction.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>• Malfunction of connector between SAS control module and ground.</li> <li>• Open or short circuit in wiring harness between SAS control module and ground.</li> <li>• SAS control module malfunction.</li> </ul>
-----------------------	--



08-02

**Diagnostic procedure**

STEP	INSPECTION		ACTION
1	<ul style="list-style-type: none"> <li>• Is vehicle equipped with side air bag?</li> </ul>	Yes	Go to next step.
		No	Go to Step 6.

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION
2	<p><b>INSPECT WIRING HARNESS BETWEEN DRIVER-SIDE SIDE AIR BAG SENSOR AND SAS CONTROL MODULE</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect driver-side side air bag sensor connector.</li> <li>• Inspect wiring harness between terminal 1B of SAS control module connector and terminal A of driver-side side air bag sensor connector, between terminal 1D of SAS control module connector and terminal B of driver-side side air bag sensor connector, between terminal 1F of SAS control module connector and terminal C of driver-side side air bag sensor connector, and between terminal 1E of SAS control module connector and terminal D of driver-side side air bag sensor connector for following. <ul style="list-style-type: none"> <li>— Short to ground</li> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Are wiring harnesses okay?</li> </ul>	<p>Yes</p> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace driver-side side air bag sensor. (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/INSTALLATION)</li> </ul> <p>No</p> <p>Replace wiring harness.</p>
3	<p><b>INSPECT GROUND CIRCUIT IN SAS CONTROL MODULE</b></p> <ul style="list-style-type: none"> <li>• Is there continuity between terminal 1F and 2Q of SAS control module?</li> </ul>	<p>Yes</p> <p>Go to next step.</p> <p>No</p> <p>Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</p>
4	<p><b>INSPECT POWER SUPPLY CIRCUIT OF DRIVER-SIDE SIDE AIR BAG SENSOR</b></p> <ul style="list-style-type: none"> <li>• Connect all SAS control module connectors.</li> <li>• Connect clock spring connector.</li> <li>• Connect passenger-side air bag module connector.</li> <li>• Connect driver- and passenger-side side air bag module connectors.</li> <li>• Connect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Measure voltage at terminal A of driver-side side air bag sensor connector.</li> <li>• Is voltage <b>approximately 5 V</b>?</li> </ul>	<p>Yes</p> <p>Replace driver-side side air bag sensor, then go to next step. (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/INSTALLATION)</p> <p>No</p> <p>Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</p>

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION				
5	<p><b>VERIFY WHETHER SAS CONTROL MODULE IS MALFUNCTIONING OR NOT</b></p> <ul style="list-style-type: none"> <li>• Connect driver-side side air bag sensor connector.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Is DTC 22 indicated?</li> </ul>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50px; vertical-align: top;">Yes</td> <td>Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</td> </tr> <tr> <td style="vertical-align: top;">No</td> <td>Complete inspection by DTC.</td> </tr> </table>	Yes	Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)	No	Complete inspection by DTC.
Yes	Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)					
No	Complete inspection by DTC.					
6	<p><b>VERIFY THAT SAS CONTROL MODULE CONNECTOR TERMINAL 2AA IS GROUNDED</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect driver-side side air bag sensor connector.</li> <li>• Inspect wiring harness between terminal 2AA of SAS control module connector and ground for following. <ul style="list-style-type: none"> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Is wiring harnesses okay?</li> </ul>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50px; vertical-align: top;">Yes</td> <td> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">No</td> <td>Replace wiring harness.</td> </tr> </table>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>	No	Replace wiring harness.
Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>					
No	Replace wiring harness.					

08-02

# ON-BOARD DIAGNOSTIC

DTC 25

A3U080201046W12

<b>DTC 25</b>	<b>Driver-side side air bag sensor system (Communication error)</b>
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>For vehicles without side air bag, DTC 22, 25, 26, 32, 35, or 37 may be indicated concurrently. In such a case, perform only the smallest DTC troubleshooting among them.</li> </ul> <p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>Malfunction in wiring harness between driver-side side air bag sensor and SAS control module.</li> <li>Malfunction in driver-side side air bag sensor circuit.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>Terminal 2AA of SAS control module connector is open.</li> </ul>
<b>POSSIBLE CAUSE</b>	<p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>Driver-side side air bag sensor malfunction.</li> <li>Open or short circuit in wiring harness between driver-side side air bag sensor and SAS control module.</li> <li>SAS control module malfunction.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>Malfunction of connector between SAS control module and ground.</li> <li>Open or short circuit in wiring harness between SAS control module and ground.</li> <li>SAS control module malfunction.</li> </ul>
<p>SAS CONTROL MODULE CONNECTOR</p> <p>HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>DRIVER-SIDE SIDE AIR BAG SENSOR</p> <p>COMPONENT SIDE CONNECTOR (VIEW FROM TERMINAL SIDE)</p> </div> <div style="text-align: center;"> <p>DRIVER-SIDE SIDE AIR BAG SENSOR CONNECTOR</p> <p>HARNESS SIDE CONNECTOR (VIEW FROM TERMINAL SIDE)</p> </div> </div>	

**Diagnostic procedure**

STEP	INSPECTION	ACTION				
1	<ul style="list-style-type: none"> <li>Is vehicle equipped with side air bag?</li> </ul>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">Yes</td> <td>Go to next step.</td> </tr> <tr> <td style="text-align: center;">No</td> <td>Go to Step 5.</td> </tr> </table>	Yes	Go to next step.	No	Go to Step 5.
Yes	Go to next step.					
No	Go to Step 5.					

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION	
2	<p><b>INSPECT WIRING HARNESS BETWEEN DRIVER-SIDE SIDE AIR BAG SENSOR AND SAS CONTROL MODULE</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect driver-side side air bag sensor connector.</li> <li>• Inspect following wiring harness between SAS control module connector and driver-side side air bag sensor connector terminals (harness side) for short to ground, short to power supply, and open circuit: <ul style="list-style-type: none"> <li>— 1B and A</li> <li>— 1D and B</li> <li>— 1F and C</li> <li>— 1E and D</li> </ul> </li> <li>• Are wiring harnesses okay?</li> </ul>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/ INSTALLATION)</li> </ul>
		No	Replace wiring harness.
3	<p><b>INSPECT DRIVER-SIDE SIDE AIR BAG SENSOR</b></p> <ul style="list-style-type: none"> <li>• Measure resistance between terminals C and D of driver-side side air bag sensor.</li> <li>• Is resistance <b>approximately 1 kilohm</b>?</li> </ul>	Yes	Replace SAS control module, then go to next step. (See 08-10-12 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
		No	Replace driver-side side air bag sensor. (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/ INSTALLATION)
4	<p><b>VERIFY WHETHER DRIVER-SIDE SIDE AIR BAG SENSOR IS MALFUNCTIONING OR NOT</b></p> <ul style="list-style-type: none"> <li>• Connect all SAS control module connectors and driver-side side air bag sensor connector.</li> <li>• Connect clock spring connector. Connect passenger-side air bag module connector.</li> <li>• Connect driver- and passenger-side side air bag module connectors.</li> <li>• Connect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Is DTC 25 indicated?</li> </ul>	Yes	Replace driver-side side air bag sensor. (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/ INSTALLATION)
		No	Complete inspection by DTC.

08-02

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION				
5	<p><b>VERIFY THAT SAS CONTROL MODULE CONNECTOR TERMINAL 2AA IS GROUNDED</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect driver-side side air bag sensor connector.</li> <li>• Inspect wiring harness between terminal 2AA of SAS control module connector and ground for following. <ul style="list-style-type: none"> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Is wiring harnesses okay?</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50px;">Yes</td> <td> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul> </td> </tr> <tr> <td style="text-align: center;">No</td> <td> <p>Replace wiring harness.</p> </td> </tr> </table>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>	No	<p>Replace wiring harness.</p>
Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>					
No	<p>Replace wiring harness.</p>					

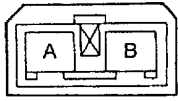
### DTC 26

A3U080201046W13

DTC 26	Driver-side side air bag module system
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</b></li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• For vehicles without side air bag, DTC 22, 25, 26, 32, 35, or 37 may be indicated concurrently. In such a case, perform only the smallest DTC troubleshooting among them.</li> </ul> <p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>• Resistance detected between terminals 1A and 1C of SAS control module is other than <b>1.63—2.71 ohm</b>.</li> <li>• Short circuit in wiring harness related terminal 1A or 1C of SAS control module.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>• Terminal 2AA of SAS control module connector is open.</li> </ul>
<b>POSSIBLE CAUSE</b>	<p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>• Driver-side side air bag module malfunction.</li> <li>• Malfunction of connectors between driver-side side air bag module and SAS control module.</li> <li>• Open or short circuit in wiring harness between driver-side side air bag module and SAS control module.</li> <li>• SAS control module malfunction.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>• Malfunction of connector between SAS control module and ground.</li> <li>• Open or short circuit in wiring harness between SAS control module and ground.</li> <li>• SAS control module malfunction.</li> </ul>

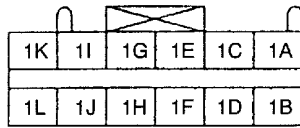
# ON-BOARD DIAGNOSTIC

DRIVER-SIDE SIDE AIR BAG  
MODULE CONNECTOR

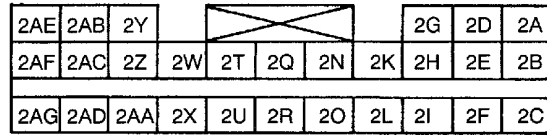


HARNESS SIDE CONNECTOR  
(VIEW FROM TERMINAL SIDE)

SAS CONTROL MODULE CONNECTOR



HARNESS SIDE CONNECTOR  
(VIEW FROM HARNESS SIDE)



HARNESS SIDE CONNECTOR  
(VIEW FROM HARNESS SIDE)

## Diagnostic procedure

STEP	INSPECTION	ACTION
1	<ul style="list-style-type: none"> <li>Is vehicle equipped with side air bag?</li> </ul>	Yes: Go to next step. No: Go to Step 5.
2	<p><b>INSPECT SEPARATOR* OF DRIVER-SIDE SIDE AIR BAG MODULE CONNECTOR</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</li> </ul> <ul style="list-style-type: none"> <li>Turn ignition switch to LOCK position.</li> <li>Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>Disconnect driver-side side air bag module connector.</li> <li>Is separator* of driver-side side air bag module connector okay?</li> </ul>	Yes: <b>Present malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>Go to next step.</li> </ul> <b>Past malfunction diagnosis:</b> <ul style="list-style-type: none"> <li>Go to Step 3.</li> </ul> No: Replace wiring harness.
3	<p><b>VERIFY WHETHER MALFUNCTION IS IN DRIVER-SIDE SIDE AIR BAG MODULE OR OTHER PARTS</b></p> <ul style="list-style-type: none"> <li>Connect leads of <b>SST</b> (Fuel And Thermometer checker) or apply <b>2 ohms</b> resistor to driver-side side air bag module connector terminals A and B.</li> <li>Set resistance of <b>SST</b> (Fuel And Thermometer checker) to <b>2 ohms</b>.</li> <li>Connect negative battery cable.</li> <li>Turn ignition switch to ON position.</li> <li>Is DTC 26 indicated?</li> </ul>	Yes: Go to next step. No: Replace driver-side side air bag module. (See 08-10-7 SIDE AIR BAG MODULE REMOVAL/INSTALLATION)

08-02

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION	
4	<p><b>INSPECT WIRING HARNESS BETWEEN DRIVER-SIDE SIDE AIR BAG MODULE AND SAS CONTROL MODULE</b></p> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect passenger-side side air bag module connector.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Inspect following wiring harness between SAS control module connector and driver-side side air bag module connector terminals (harness side) for short to ground, short to power supply, and open circuit:                             <ul style="list-style-type: none"> <li>— 1A and A</li> <li>— 1C and B</li> </ul> </li> <li>• Are wiring harnesses okay?</li> </ul>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Remove SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace driver-side side air bag module. (See 08–10–7 SIDE AIR BAG MODULE REMOVAL/INSTALLATION)</li> </ul>
		No	Replace wiring harness.
5	<p><b>VERIFY THAT SAS CONTROL MODULE CONNECTOR TERMINAL 2AA IS GROUNDED</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect driver-side side air bag sensor connector.</li> <li>• Inspect wiring harness between terminal 2AA of SAS control module connector and ground for following.                             <ul style="list-style-type: none"> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Is wiring harnesses okay?</li> </ul>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>
		No	Replace wiring harness.

\* : Consists of the 2 parts of the female connector that separate the short bar from the terminal when connected to the male connector.



# ON-BOARD DIAGNOSTIC

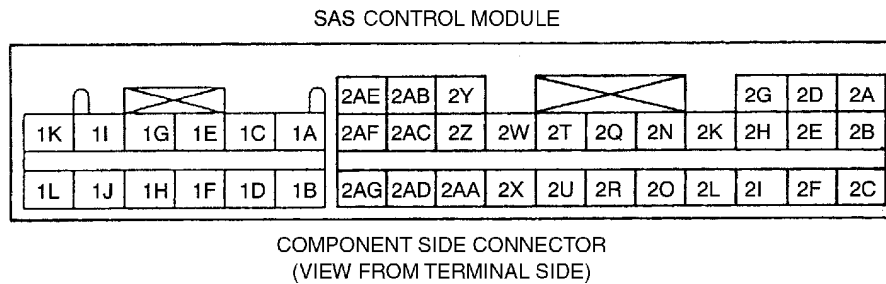
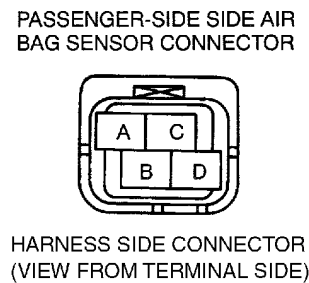
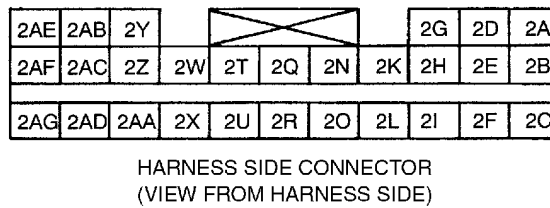
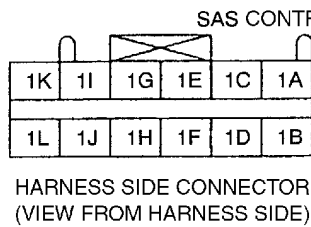
DTC 32

A3U080201046W14

<b>DTC 32</b>	<b>Passenger-side side air bag sensor system (Internal circuit abnormal)</b>
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</b></li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• For vehicles without side air bag, DTC 22, 25, 26, 32, 35, or 37 may be indicated concurrently. In such a case, perform only the smallest DTC troubleshooting among them.</li> </ul> <p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>• Malfunction in wiring harness between passenger-side side air bag sensor and SAS control module.</li> <li>• Malfunction in passenger-side side air bag sensor circuit.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>• Terminal 2AA of SAS control module connector is open.</li> </ul>

<b>POSSIBLE CAUSE</b>	<p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>• Passenger-side side air bag sensor malfunction.</li> <li>• Open or short circuit in wiring harness between passenger-side side air bag sensor and SAS control module.</li> <li>• SAS control module malfunction.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>• Malfunction of connector between SAS control module and ground.</li> <li>• Open or short circuit in wiring harness between SAS control module and ground.</li> <li>• SAS control module malfunction.</li> </ul>
-----------------------	--

08-02



**Diagnostic procedure**

STEP	INSPECTION	ACTION				
1	<ul style="list-style-type: none"> <li>• Is vehicle equipped with side air bag?</li> </ul>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">Yes</td> <td>Go to next step.</td> </tr> <tr> <td style="text-align: center;">No</td> <td>Go to Step 6.</td> </tr> </table>	Yes	Go to next step.	No	Go to Step 6.
Yes	Go to next step.					
No	Go to Step 6.					

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION
2	<p><b>INSPECT WIRING HARNESS BETWEEN PASSENGER-SIDE SIDE AIR BAG SENSOR AND SAS CONTROL MODULE</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect passenger-side side air bag sensor connector.</li> <li>• Inspect wiring harness between terminal 1L of SAS control module connector and terminal A of passenger-side side air bag sensor connector, between terminal 1J of SAS control module connector and terminal B of passenger-side side air bag sensor connector, between terminal 1H of SAS control module connector and terminal C of passenger-side side air bag sensor connector, and between terminal 1G of SAS control module connector and terminal D of passenger-side side air bag sensor connector for following. <ul style="list-style-type: none"> <li>— Short to ground</li> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Are wiring harnesses okay?</li> </ul>	<p>Yes</p> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace passenger-side side air bag sensor. (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/INSTALLATION)</li> </ul> <p>No</p> <p>Replace wiring harness.</p>
3	<p><b>INSPECT GROUND CIRCUIT IN SAS CONTROL MODULE</b></p> <ul style="list-style-type: none"> <li>• Is there continuity between terminal 1H and 2Q of SAS control module?</li> </ul>	<p>Yes</p> <p>Go to next step.</p> <p>No</p> <p>Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</p>
4	<p><b>INSPECT POWER SUPPLY CIRCUIT OF PASSENGER-SIDE SIDE AIR BAG SENSOR</b></p> <ul style="list-style-type: none"> <li>• Connect all SAS control module connectors.</li> <li>• Connect clock spring connector.</li> <li>• Connect passenger-side air bag module connector.</li> <li>• Connect driver- and passenger-side side air bag module connectors.</li> <li>• Connect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Measure voltage at terminal A of passenger-side side air bag sensor connector.</li> <li>• Is voltage <b>approximately 5 V</b>?</li> </ul>	<p>Yes</p> <p>Replace passenger-side side air bag sensor, then go to next step. (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/INSTALLATION)</p> <p>No</p> <p>Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</p>

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION				
5	<p><b>VERIFY WHETHER SAS CONTROL MODULE IS MALFUNCTIONING OR NOT</b></p> <ul style="list-style-type: none"> <li>• Connect passenger-side side air bag sensor connector.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Is DTC 32 indicated?</li> </ul>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50px; vertical-align: top;">Yes</td> <td>Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</td> </tr> <tr> <td style="vertical-align: top;">No</td> <td>Complete inspection by DTC.</td> </tr> </table>	Yes	Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)	No	Complete inspection by DTC.
Yes	Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)					
No	Complete inspection by DTC.					
6	<p><b>VERIFY THAT SAS CONTROL MODULE CONNECTOR TERMINAL 2AA IS GROUNDED</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment. (Vehicles with passenger-side air bag)</li> <li>• Disconnect passenger-side air bag module connector. (Vehicles with passenger-side air bag)</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect driver-side side air bag sensor connector.</li> <li>• Inspect wiring harness between terminal 2AA of SAS control module connector and ground for following. <ul style="list-style-type: none"> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Is wiring harnesses okay?</li> </ul>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50px; vertical-align: top;">Yes</td> <td> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">No</td> <td>Replace wiring harness.</td> </tr> </table>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>	No	Replace wiring harness.
Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>					
No	Replace wiring harness.					

08-02

# ON-BOARD DIAGNOSTIC

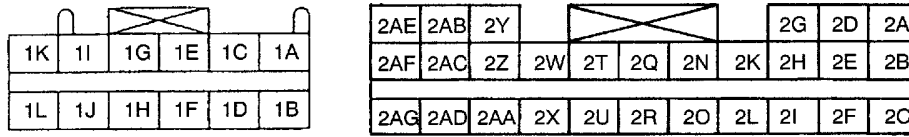
DTC 35

A3U080201046W15

<b>DTC 35</b>	<b>Passenger-side side air bag sensor system (Communication error)</b>
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>For vehicles without side air bag, DTC 22, 25, 26, 32, 35, or 37 may be indicated concurrently. In such a case, perform only the smallest DTC troubleshooting among them.</li> </ul> <p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>Malfunction in wiring harness between passenger-side side air bag sensor and SAS control module.</li> <li>Malfunction in passenger-side side air bag sensor circuit.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>Terminal 2AA of SAS control module connector is open.</li> </ul>

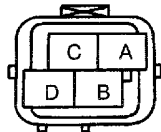
<b>POSSIBLE CAUSE</b>	<p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>Passenger-side side air bag sensor malfunction.</li> <li>Open or short circuit in wiring harness between passenger-side side air bag sensor and SAS control module.</li> <li>SAS control module malfunction.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>Malfunction of connector between SAS control module and ground.</li> <li>Open or short circuit in wiring harness between SAS control module and ground.</li> <li>SAS control module malfunction.</li> </ul>
-----------------------	--

SAS CONTROL MODULE CONNECTOR



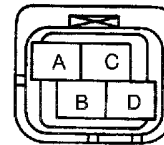
HARNESS SIDE CONNECTOR  
(VIEW FROM HARNESS SIDE)

PASSENGER-SIDE  
SIDE AIR BAG SENSOR



COMPONENT SIDE CONNECTOR  
(VIEW FROM TERMINAL SIDE)

PASSENGER-SIDE SIDE AIR  
BAG SENSOR CONNECTOR



HARNESS SIDE CONNECTOR  
(VIEW FROM TERMINAL SIDE)

**Diagnostic procedure**

STEP	INSPECTION	ACTION				
1	<ul style="list-style-type: none"> <li>Is vehicle equipped with side air bag?</li> </ul>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">Yes</td> <td>Go to next step.</td> </tr> <tr> <td style="text-align: center;">No</td> <td>Go to Step 5.</td> </tr> </table>	Yes	Go to next step.	No	Go to Step 5.
Yes	Go to next step.					
No	Go to Step 5.					

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION
2	<p><b>INSPECT WIRING HARNESS BETWEEN PASSENGER-SIDE SIDE AIR BAG SENSOR AND SAS CONTROL MODULE</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect passenger-side side air bag sensor connector.</li> <li>• Inspect following wiring harness between SAS control module connector and passenger-side side air bag sensor connector terminals (harness side) for short to ground, short to power supply, and open circuit: <ul style="list-style-type: none"> <li>— 1L and A</li> <li>— 1J and B</li> <li>— 1H and C</li> <li>— 1G and D</li> </ul> </li> <li>• Are wiring harnesses okay?</li> </ul>	<p>Yes</p> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/ INSTALLATION)</li> </ul> <p>No</p> <p>Replace wiring harness.</p>
3	<p><b>INSPECT PASSENGER-SIDE SIDE AIR BAG SENSOR</b></p> <ul style="list-style-type: none"> <li>• Measure resistance between terminals C and D of passenger-side side air bag sensor.</li> <li>• Is resistance <b>approximately 1 kilohm</b>?</li> </ul>	<p>Yes</p> <p>Replace SAS control module, then go to next step. (See 08-10-12 SAS CONTROL MODULE REMOVAL/ INSTALLATION)</p> <p>No</p> <p>Replace passenger-side side air bag sensor. (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/ INSTALLATION)</p>
4	<p><b>VERIFY WHETHER PASSENGER-SIDE SIDE AIR BAG SENSOR IS MALFUNCTIONING OR NOT</b></p> <ul style="list-style-type: none"> <li>• Connect all SAS control module connectors and passenger-side side air bag sensor connector.</li> <li>• Connect clock spring connector.</li> <li>• Connect passenger-side air bag module connector.</li> <li>• Connect driver- and passenger-side side air bag module connectors.</li> <li>• Connect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Is DTC 35 indicated?</li> </ul>	<p>Yes</p> <p>Replace passenger-side side air bag sensor. (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/ INSTALLATION)</p> <p>No</p> <p>Complete inspection by DTC.</p>

08-02

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION				
5	<p><b>VERIFY THAT SAS CONTROL MODULE CONNECTOR TERMINAL 2AA IS GROUNDED</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect driver-side side air bag sensor connector.</li> <li>• Inspect wiring harness between terminal 2AA of SAS control module connector and ground for following. <ul style="list-style-type: none"> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Is wiring harnesses okay?</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50px;">Yes</td> <td> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul> </td> </tr> <tr> <td style="text-align: center;">No</td> <td> <p>Replace wiring harness.</p> </td> </tr> </table>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>	No	<p>Replace wiring harness.</p>
Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>					
No	<p>Replace wiring harness.</p>					

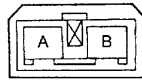
### DTC 37

A3U080201046W16

DTC 37	Passenger-side side air bag module system
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</b></li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• For vehicles without side air bag, DTC 22, 25, 26, 32, 35, or 37 may be indicated concurrently. In such a case, perform only the smallest DTC troubleshooting among them.</li> </ul> <p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>• Resistance detected between terminals 11 and 1K of SAS control module is other than <b>1.63—2.71 ohm</b>.</li> <li>• Short circuit in wiring harness related terminal 11 or 1K of SAS control module.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>• Terminal 2AA of SAS control module connector is open.</li> </ul>
<b>POSSIBLE CAUSE</b>	<p><b>Vehicles with side air bag</b></p> <ul style="list-style-type: none"> <li>• Passenger-side side air bag module malfunction.</li> <li>• Malfunction of connectors between passenger-side side air bag module and SAS control module.</li> <li>• Open or short circuit in wiring harness between passenger-side side air bag module and SAS control module.</li> <li>• SAS control module malfunction.</li> </ul> <p><b>Vehicles without side air bag</b></p> <ul style="list-style-type: none"> <li>• Malfunction of connector between SAS control module and ground.</li> <li>• Open or short circuit in wiring harness between SAS control module and ground.</li> <li>• SAS control module malfunction.</li> </ul>

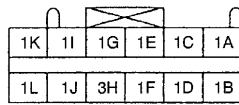
# ON-BOARD DIAGNOSTIC

PASSENGER-SIDE SIDE AIR BAG MODULE CONNECTOR

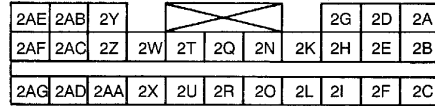


HARNESS SIDE CONNECTOR  
(VIEW FROM TERMINAL SIDE)

SAS CONTROL MODULE CONNECTOR



HARNESS SIDE CONNECTOR  
(VIEW FROM HARNESS SIDE)



## Diagnostic procedure

STEP	INSPECTION	ACTION				
1	<ul style="list-style-type: none"> <li>Is vehicle equipped with side air bag?</li> </ul>	<table border="0" style="width: 100%;"> <tr> <td style="width: 30px; text-align: center;">Yes</td> <td>Go to next step.</td> </tr> <tr> <td style="text-align: center;">No</td> <td>Go to Step 5.</td> </tr> </table>	Yes	Go to next step.	No	Go to Step 5.
Yes	Go to next step.					
No	Go to Step 5.					
2	<p><b>INSPECT SEPARATOR* OF PASSENGER-SIDE SIDE AIR BAG MODULE CONNECTOR</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</li> </ul> <ul style="list-style-type: none"> <li>Turn ignition switch to LOCK position.</li> <li>Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>Disconnect passenger-side side air bag module connector.</li> <li>Is separator* of passenger-side side air bag module connector okay?</li> </ul>	<table border="0" style="width: 100%;"> <tr> <td style="width: 30px; text-align: center;">Yes</td> <td> <p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>Go to Step 3.</li> </ul> </td> </tr> <tr> <td style="text-align: center;">No</td> <td>Replace wiring harness.</td> </tr> </table>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>Go to Step 3.</li> </ul>	No	Replace wiring harness.
Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>Go to next step.</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>Go to Step 3.</li> </ul>					
No	Replace wiring harness.					
3	<p><b>VERIFY WHETHER MALFUNCTION IS IN PASSENGER-SIDE SIDE AIR BAG MODULE OR OTHER PARTS</b></p> <ul style="list-style-type: none"> <li>Connect leads of <b>SST</b> (Fuel And Thermometer checker) or apply <b>2 ohms</b> resistor to passenger-side side air bag module connector terminals A and B.</li> <li>Set resistance of <b>SST</b> (Fuel And Thermometer checker) to <b>2 ohms</b>.</li> <li>Connect negative battery cable.</li> <li>Turn ignition switch to ON position.</li> <li>Is DTC 37 indicated?</li> </ul>	<table border="0" style="width: 100%;"> <tr> <td style="width: 30px; text-align: center;">Yes</td> <td>Go to next step.</td> </tr> <tr> <td style="text-align: center;">No</td> <td>Replace passenger-side side air bag module. (See 08-10-7 SIDE AIR BAG MODULE REMOVAL/INSTALLATION)</td> </tr> </table>	Yes	Go to next step.	No	Replace passenger-side side air bag module. (See 08-10-7 SIDE AIR BAG MODULE REMOVAL/INSTALLATION)
Yes	Go to next step.					
No	Replace passenger-side side air bag module. (See 08-10-7 SIDE AIR BAG MODULE REMOVAL/INSTALLATION)					

08-02

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION	
4	<p><b>INSPECT WIRING HARNESS BETWEEN PASSENGER-SIDE SIDE AIR BAG MODULE AND SAS CONTROL MODULE</b></p> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver-side side air bag module connector.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Inspect following wiring harness between SAS control module connector and passenger-side side air bag module connector terminals (harness side) for short to ground, short to power supply, and open circuit:                             <ul style="list-style-type: none"> <li>— 1I and A</li> <li>— 1K and B</li> </ul> </li> <li>• Are wiring harnesses okay?</li> </ul>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Remove SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace passenger-side side air bag module. (See 08–10–7 SIDE AIR BAG MODULE REMOVAL/INSTALLATION)</li> </ul>
		No	Replace wiring harness.
5	<p><b>VERIFY THAT SAS CONTROL MODULE CONNECTOR TERMINAL 2AA IS GROUNDED</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Remove B-pillar lower trims.</li> <li>• Disconnect driver-and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Disconnect driver-side side air bag sensor connector.</li> <li>• Inspect wiring harness between terminal 2AA of SAS control module connector and ground for following.                             <ul style="list-style-type: none"> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Is wiring harnesses okay?</li> </ul>	Yes	<p><b>Present malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Replace SAS control module. (See 08–10–12 SAS CONTROL MODULE REMOVAL/INSTALLATION)</li> </ul> <p><b>Past malfunction diagnosis:</b></p> <ul style="list-style-type: none"> <li>• Complete inspection by DTC.</li> </ul>
		No	Replace wiring harness.

\* : Consists of the 2 parts of the female connector that separate the short bar from the terminal when connected to the male connector.

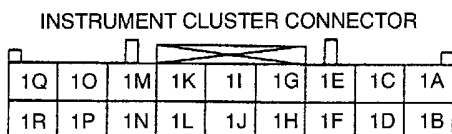


# ON-BOARD DIAGNOSTIC

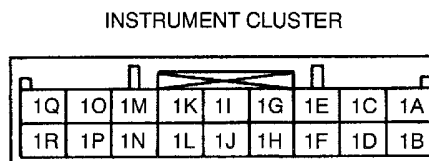
DTC 91

A3U080201046W17

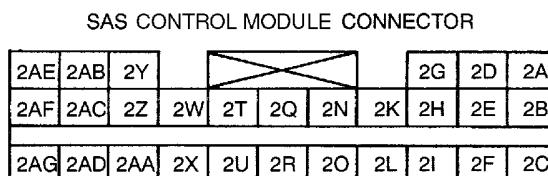
<b>DTC 91</b>	<b>Air bag system warning light system</b>
<b>DETECTION CONDITION</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow diagnostic procedure.</b></li> </ul> <ul style="list-style-type: none"> <li>• Malfunction in air bag system warning light circuit.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• Air bag system warning light bulb malfunction.</li> <li>• METER 10 A fuse malfunction.</li> <li>• Instrument cluster malfunction.</li> <li>• Malfunction of connectors between instrument cluster and SAS control module.</li> <li>• Open or short circuit in wiring harness between METER 10 A fuse and instrument cluster.</li> <li>• Open or short circuit in wiring harness between instrument cluster and SAS control module.</li> <li>• SAS control module malfunction.</li> </ul>



HARNESS SIDE CONNECTOR  
(VIEW FROM HARNESS SIDE)



COMPONENT SIDE CONNECTOR  
(VIEW FROM TERMINAL SIDE)



HARNESS SIDE CONNECTOR  
(VIEW FROM HARNESS SIDE)

**Diagnostic procedure**

STEP	INSPECTION	Yes	ACTION
1	<ul style="list-style-type: none"> <li>• Is this present malfunction diagnosis?</li> </ul>	Yes	Replace SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)
		No	Go to next step.
2	<p><b>INSPECT METER 10 A FUSE</b></p> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable.</li> <li>• Remove METER 10 A fuse.</li> <li>• Is fuse okay?</li> </ul>	Yes	Reinstall METER 10 A fuse, then go to next step.
		No	Replace METER 10 A fuse.
3	<p><b>INSPECT AIR BAG SYSTEM WARNING LIGHT BULB</b></p> <ul style="list-style-type: none"> <li>• Remove instrument cluster. (See 09-22-3 INSTRUMENT CLUSTER REMOVAL/INSTALLATION)</li> <li>• Remove air bag system warning light bulb.</li> <li>• Is bulb okay?</li> </ul>	Yes	Reinstall air bag system warning light bulb, then go to next step.
		No	Replace air bag system warning light bulb.
4	<p><b>INSPECT INSTRUMENT CLUSTER</b></p> <ul style="list-style-type: none"> <li>• Is there continuity between instrument cluster terminals 1J and 1R?</li> </ul>	Yes	Go to next step.
		No	<p><b>With tachometer</b></p> <ul style="list-style-type: none"> <li>• Replace speedometer and tachometer.</li> </ul> <p><b>Without tachometer</b></p> <ul style="list-style-type: none"> <li>• Replace speedometer. (See 09-22-3 INSTRUMENT CLUSTER DISASSEMBLY/ASSEMBLY)</li> </ul>

08-02

## ON-BOARD DIAGNOSTIC

STEP	INSPECTION	ACTION	
5	<b>INSPECT FOR CONTINUITY BETWEEN METER 10 A FUSE AND INSTRUMENT CLUSTER</b> <ul style="list-style-type: none"> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Measure voltage at instrument cluster connector terminal 1J.</li> <li>• Is voltage <b>more than 9 V</b>?</li> </ul>	Yes	Go to next step.
		No	Replace wiring harness.
6	<b>INSPECT WIRING HARNESS BETWEEN INSTRUMENT CLUSTER AND SAS CONTROL MODULE</b> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>• Remove B-pillar trims.</li> <li>• Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Inspect wiring harness between instrument cluster connector terminal 1R and SAS control module connector terminal 2W for following. <ul style="list-style-type: none"> <li>— Short to ground</li> <li>— Short to power supply</li> <li>— Open circuit</li> </ul> </li> <li>• Is wiring harness okay?</li> </ul>	Yes	Go to next step.
		No	Replace wiring harness.
7	<b>INSPECT WIRING HARNESS BETWEEN DLC AND SAS CONTROL MODULE</b> <ul style="list-style-type: none"> <li>• Inspect wiring harness between FAB terminal of DLC and terminal 2W of SAS control module connector for following. <ul style="list-style-type: none"> <li>— Short to ground</li> <li>— Short to power supply</li> </ul> </li> <li>• Is wiring harness okay?</li> </ul>	Yes	Complete inspection by DTC.
		No	Replace wiring harness.

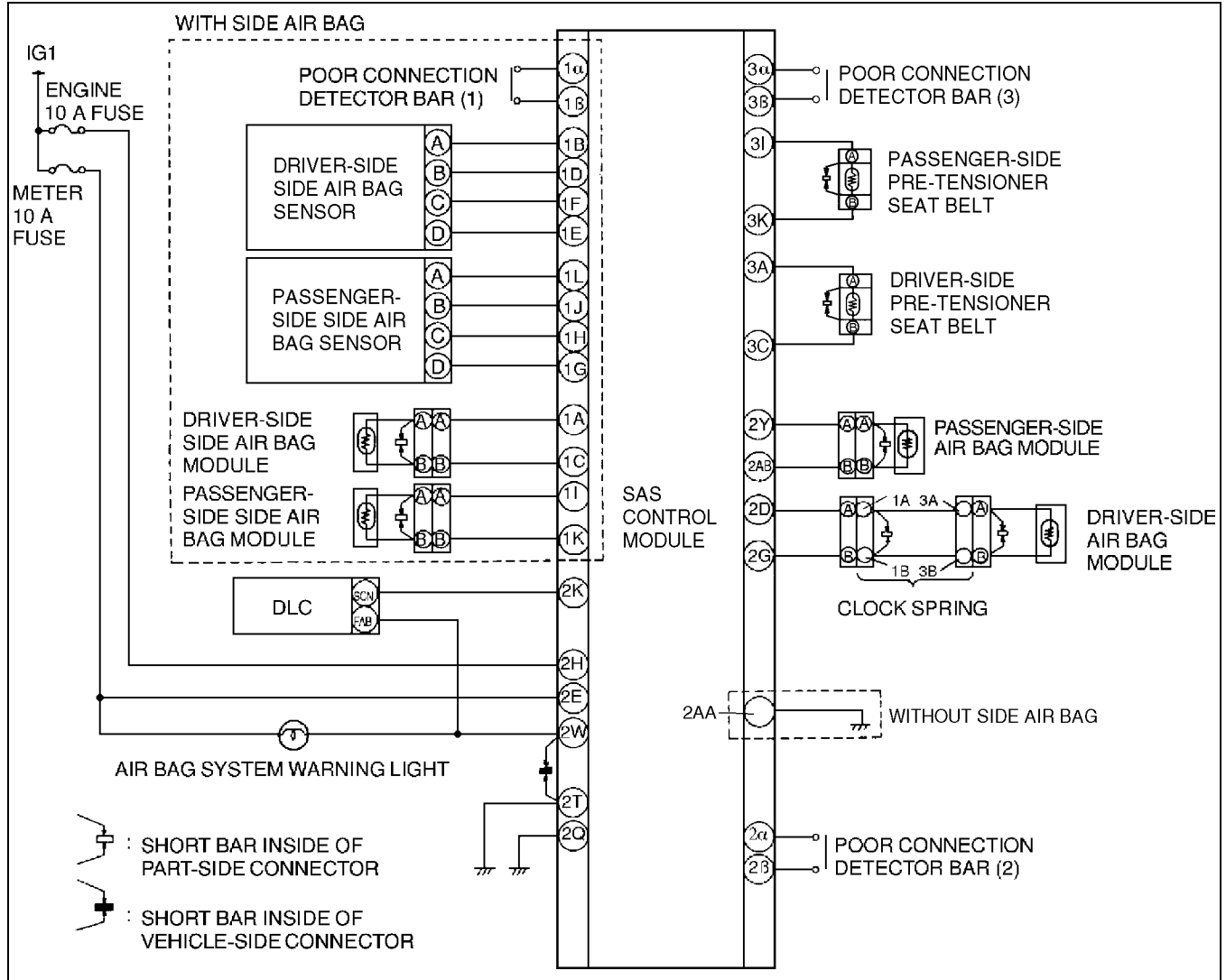
# 08-03 SYMPTOM TROUBLESHOOTING

**AIR BAG SYSTEM WIRING DIAGRAM . 08-03-1**  
**FOREWORD . . . . . 08-03-2**  
 Flowchart . . . . . 08-03-2  
**TRUBLESHOOTING INDEX. . . . . 08-03-4**  
**NO.1 AIR BAG SYSTEM WARNING**  
**LIGHT DOES NOT ILLUMINATE**  
**WHEN IGNITION SWITCH IS**  
**TURNED TO ON POSITION . . . . . 08-03-4**

**NO.2 AIR BAG SYSTEM WARNING LIGHT**  
**ILLUMINATES IMMEDIATELY AFTER IGNITION**  
**SWITCH IS TURNED TO ON POSITION AND**  
**REMAINS ILLUMINATED . . . . . 08-03-6**

## AIR BAG SYSTEM WIRING DIAGRAM

A3U080301046W01



08-03

Z3U0802W001

# SYMPTOM TROUBLESHOOTING

---

## FOREWORD

A3U080301046W02

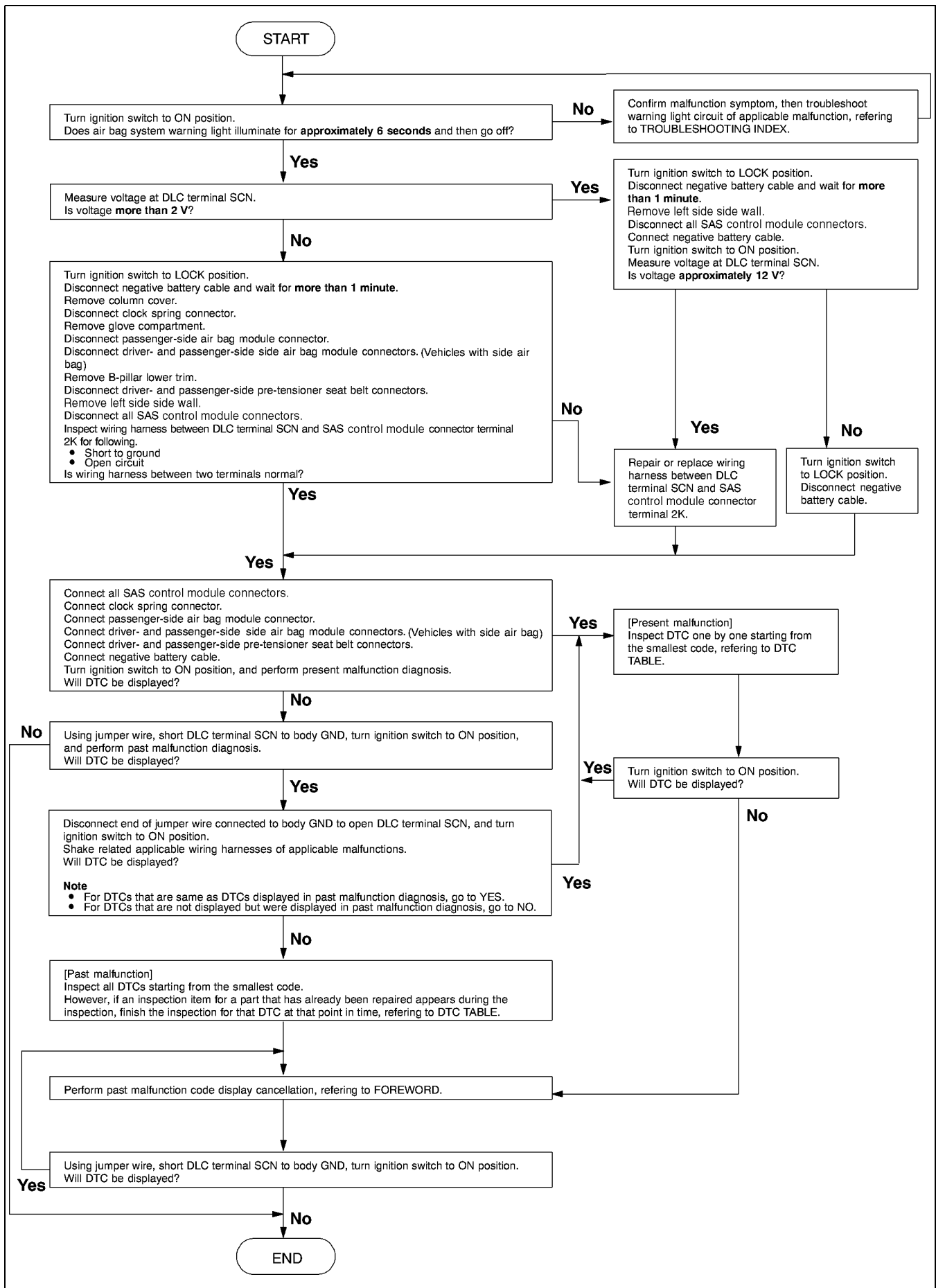
- Thoroughly read and understand the basic flow of troubleshooting in order to properly perform the procedures. (See 00–00–5 Troubleshooting Procedure.)
- Use the following flowchart to verify the cause of the trouble.

## Flowchart

### Note

- While performing the inspection of the past malfunction code, the applicable DTCs may be added to memory by removing or disconnecting the related parts. Inspect only the DTCs that were indicated before inspecting.
- When DTCs of present malfunction are no longer output after present and/or past malfunctions have been repaired, be sure to perform past malfunction display cancellation to prevent repair of malfunctions that have already been repaired.

# SYMPTOM TROUBLESHOOTING



# SYMPTOM TROUBLESHOOTING

## TROUBLESHOOTING INDEX

A3U080301046W03

- Use the chart below to verify the symptoms of the trouble in order to diagnose the appropriate area.

No.	Malfunction symptom	Description	Page
1	Air bag system warning light does not illuminate when ignition switch is turned to ON position.	Malfunction in air bag system warning circuit (open circuit or short to power supply).	(See 08-03-4 NO.1 AIR BAG SYSTEM WARNING LIGHT DOES NOT ILLUMINATE WHEN IGNITION SWITCH IS TURNED TO ON POSITION)
2	Air bag system warning light illuminates immediately after ignition switch is turned to ON position and remains illuminated.	Malfunction in air bag system warning circuit (short to ground).	(See 08-03-6 NO.2 AIR BAG SYSTEM WARNING LIGHT ILLUMINATES IMMEDIATELY AFTER IGNITION SWITCH IS TURNED TO ON POSITION AND REMAINS ILLUMINATED)

### Note

- The following may be the cause of trouble if the symptom does not go away after the symptom troubleshooting steps are followed.
  - Simultaneous poor contact at short connector terminals B and P between METER 10 A fuse and SAS control module, and between ENGINE 10 A fuse and SAS control module.
  - Simultaneous poor contact at SAS control module connector terminals 2T and 2Q.
  - Simultaneous poor contact at SAS control module connector terminals 2E and 2H.
  - Poor contacts in wiring harness between SAS control module connector terminal 2T and ground, and between SAS control module connector terminal 2Q and ground at the same time.
  - Poor contacts or short circuits in wiring harness between METER 10 A fuse and SAS control module, and between ENGINE 10 A fuse and SAS control module at the same time.

## NO.1 AIR BAG SYSTEM WARNING LIGHT DOES NOT ILLUMINATE WHEN IGNITION SWITCH IS TURNED TO ON POSITION

A3U080301046W04

1	<b>Air bag system warning light does not illuminate when ignition switch is turned to ON position.</b>
<p><b>TROUBLESHOOTING HINTS</b></p> <ul style="list-style-type: none"> <li>• Malfunction in air bag system warning light circuit                             <ul style="list-style-type: none"> <li>— Instrument cluster (print plate) malfunction</li> <li>— Air bag system warning light bulb malfunction</li> <li>— Poor contact in instrument cluster connector</li> <li>— Open or short circuit in wiring harness between instrument cluster and SAS control module</li> <li>— SAS control module malfunction</li> </ul> </li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• When inserting insulator between SAS control module connector terminals and short bar, insert it as shown in the figure.</li> </ul>	

- When performing an asterisked(\*) troubleshooting inspection, shake the wiring harness and connectors while doing the inspection to discover the poor contact points which may be the cause of intermittent malfunctions.
- If there is a problem, check to make sure connectors, terminals and wiring harness are connected correctly and undamaged.

## SYMPTOM TROUBLESHOOTING

### Diagnostic procedure

STEP	INSPECTION	ACTION	
1	<b>INSPECT OTHER WARNING AND INDICATOR LIGHTS CIRCUIT IN INSTRUMENT CLUSTER</b> <ul style="list-style-type: none"> <li>• Turn ignition switch to ON position.</li> <li>• Do other warning and indicator lights illuminate?</li> </ul>	Yes	Turn ignition switch to LOCK position, then go to next step.
		No	Inspect instrument cluster power supply system and ground system, then go to Step 6.
2	<b>INSPECT AIR BAG SYSTEM WARNING LIGHT BULB</b> <ul style="list-style-type: none"> <li>• Disconnect negative battery cable.</li> <li>• Remove instrument cluster. (See 09-22-3 INSTRUMENT CLUSTER REMOVAL/INSTALLATION)</li> <li>• Is air bag system warning light bulb functional?</li> </ul>	Yes	Reinstall it properly, then go to next step.
		No	Replace bulb, then go to Step 6.
* 3	<b>INSPECT WIRING HARNESS BETWEEN SAS CONTROL MODULE AND INSTRUMENT CLUSTER FOR CONTINUITY</b> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</b></li> </ul> <ul style="list-style-type: none"> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>• Remove B-pillar trims.</li> <li>• Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Remove left side side wall.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Is there continuity between SAS control module connector terminal 2W and instrument cluster connector terminal 1R?</li> </ul>	Yes	Go to next step.
		No	Replace wiring harness, then go to Step 6.
* 4	<b>INSPECT WIRING HARNESS BETWEEN SAS CONTROL MODULE AND INSTRUMENT CLUSTER FOR SHORT TO POWER SUPPLY</b> <ul style="list-style-type: none"> <li>• Connect negative battery cable.</li> </ul> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>• <b>Be sure not to cause damage to short bar when inserting insulator. If short bar is damaged, you may not be able to properly inspect connection of SAS control module connector.</b></li> </ul> <ul style="list-style-type: none"> <li>• Insert insulator between SAS control module connector terminals 2W and 2T so short bar cannot function.</li> <li>• Turn ignition switch to ON position.</li> <li>• Measure voltage at instrument cluster connector terminal 1R.</li> <li>• Is voltage <b>more than approximately 9 V</b>?</li> </ul>	Yes	Replace wiring harness, then go to Step 6.
		No	Go to next step.

08-03

## SYMPTOM TROUBLESHOOTING

STEP	INSPECTION	ACTION	
5	<b>VERIFY WHETHER MALFUNCTION IS IN PRINT PLATE IN INSTRUMENT CLUSTER</b> <ul style="list-style-type: none"> <li>Is there continuity between terminals 1J and 1R of print plate on instrument cluster?</li> </ul>	Yes	Replace SAS control module, then go to next step. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)
		No	Replace instrument cluster, then go to next step. (See 09-22-3 INSTRUMENT CLUSTER REMOVAL/INSTALLATION)
6	<b>VERIFY WHETHER MALFUNCTION SYMPTOM OCCURS AFTER REPAIR OR NOT</b> <ul style="list-style-type: none"> <li>Connect all SAS control module connectors.</li> <li>Connect driver- and passenger-side pretensioner seat belt connectors.</li> <li>Connect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>Connect passenger-side air bag module connector.</li> <li>Connect clock spring connector.</li> <li>Connect instrument cluster connector.</li> <li>Connect negative battery cable.</li> <li>Turn ignition switch to ON position.</li> <li>Does air bag system warning light operate properly?</li> </ul>	Yes	Complete troubleshooting, then explain repairs to customer.
		No	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.

### NO.2 AIR BAG SYSTEM WARNING LIGHT ILLUMINATES IMMEDIATELY AFTER IGNITION SWITCH IS TURNED TO ON POSITION AND REMAINS ILLUMINATED

A3U080301046W05

2	<b>Air bag system warning light illuminates immediately after ignition switch is turned to ON position and remains illuminated.</b>
<b>TROUBLESHOOTING HINTS</b> <ul style="list-style-type: none"> <li>Malfunction in air bag system warning light circuit                             <ul style="list-style-type: none"> <li>Instrument cluster (print plate) malfunction</li> <li>Malfunction of short bar between SAS control module connector terminals 2W and 2T</li> <li>No connection in SAS control module connector</li> <li>Short circuit in wiring harness between instrument cluster and SAS control module</li> <li>SAS control module malfunction</li> </ul> </li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>When inserting insulator between SAS control module connector terminals and short bar, insert it as shown in the figure.</li> </ul>	

- When performing an asterisked(\*) troubleshooting inspection, shake the wiring harness and connectors while doing the inspection to discover the poor contact points which may be the cause of intermittent malfunctions.
- If there is a problem, check to make sure connectors, terminals and wiring harness are connected correctly and undamaged.



## SYMPTOM TROUBLESHOOTING

### Diagnostic procedure

STEP	INSPECTION	ACTION	
1	<b>VERIFY THAT SAS CONTROL MODULE CONNECTOR IS CONNECTED</b>  <b>Warning</b> <ul style="list-style-type: none"> <li>• Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS)</li> </ul> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Remove left side side wall.</li> <li>• Are all SAS control module connectors securely connected?</li> </ul>	Yes	Go to next step.
		No	Reconnect connector properly, then go to Step 6.
2	<b>INSPECT SAS CONTROL MODULE TERMINALS 2W AND 2T</b> <ul style="list-style-type: none"> <li>• Remove column cover.</li> <li>• Disconnect clock spring connector.</li> <li>• Remove glove compartment.</li> <li>• Disconnect passenger-side air bag module connector.</li> <li>• Disconnect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>• Remove B-pillar trims.</li> <li>• Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>• Disconnect all SAS control module connectors.</li> <li>• Is short bar between SAS control module connector terminals 2W and 2T bent?</li> </ul>	Yes	Replace wiring harness, then go to Step 6.
		No	Go to next step.
3	<b>INSPECT SHORT BAR HOOK OF SAS CONTROL MODULE</b> <ul style="list-style-type: none"> <li>• Is short bar hook of SAS control module okay?</li> </ul>	Yes	Go to next step.
		No	Replace SAS control module, then go to Step 6. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)
* 4	<b>INSPECT WIRING HARNESS BETWEEN SAS CONTROL MODULE AND INSTRUMENT CLUSTER FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Remove instrument cluster. (See 09-22-3 INSTRUMENT CLUSTER REMOVAL/INSTALLATION)</li> </ul> <b>Caution</b> <ul style="list-style-type: none"> <li>• Be sure not to cause damage to short bar when inserting insulator. If short bar is damaged, you may not be able to properly inspect connection of SAS control module connector.</li> </ul> <ul style="list-style-type: none"> <li>• Insert insulator between SAS control module connector terminals 2W and 2T so short bar cannot function.</li> <li>• Is there continuity between SAS (control module) connector terminal 2W and ground?</li> </ul>	Yes	Replace wiring harness, then go to Step 6.
		No	Go to next step.
5	<b>INSPECT FOR SHORT TO GROUND IN INSTRUMENT CLUSTER CIRCUIT</b> <ul style="list-style-type: none"> <li>• Is there continuity between terminal 1R and any of following terminals of print plate on instrument cluster? <ul style="list-style-type: none"> <li>— Terminal 1D</li> <li>— Terminal 1A</li> <li>— Terminal 2B (Without ABS or ABS/TCS)</li> </ul> </li> </ul>	Yes	Replace instrument cluster, then go to next step. (See 09-22-3 INSTRUMENT CLUSTER REMOVAL/INSTALLATION)
		No	Replace SAS control module, then go to next step. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION)

08-03

## SYMPTOM TROUBLESHOOTING

STEP	INSPECTION	ACTION	
6	<b>VERIFY WHETHER MALFUNCTION SYMPTOM OCCURS AFTER REPAIR OR NOT</b> <ul style="list-style-type: none"> <li>• Connect all SAS control module connectors.</li> <li>• Connect driver- and passenger-side pretensioner seat belt connectors.</li> <li>• Connect driver- and passenger-side side air bag module connectors. (Vehicles with side air bag)</li> <li>• Connect passenger-side air bag module connector.</li> <li>• Connect clock spring connector.</li> <li>• Connect instrument cluster connector.</li> <li>• Connect negative battery cable.</li> <li>• Turn ignition switch to ON position.</li> <li>• Does air bag system warning light operate properly?</li> </ul>	Yes	Complete troubleshooting, then explain repairs to customer.
		No	Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.

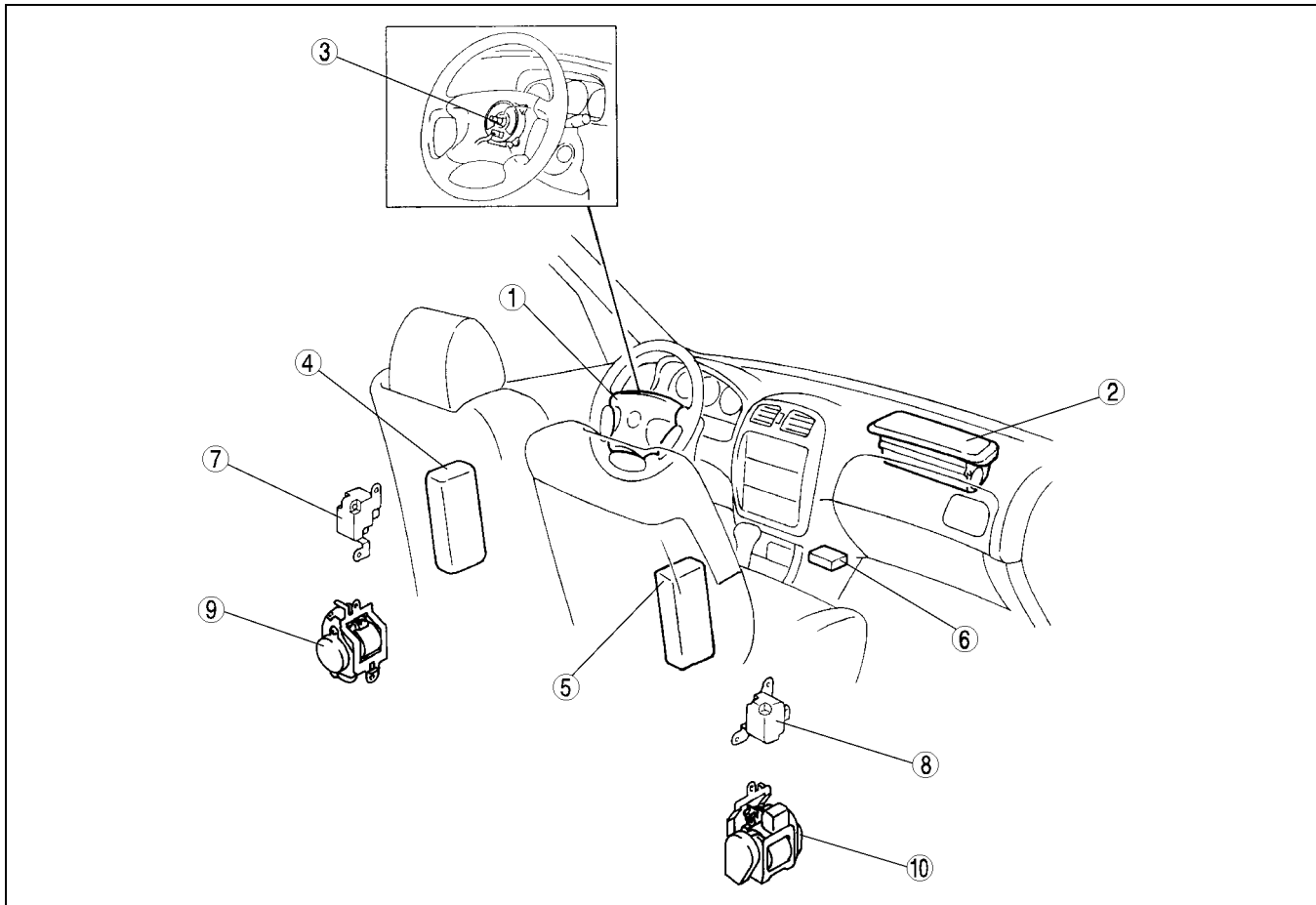
## **08-10 AIR BAG SYSTEM**

<b>LOCATION INDEX</b> .....	08-10-2
<b>AIR BAG SYSTEM SERVICE</b>	
<b>WARNINGS</b> .....	08-10-3
Component Disassembly .....	08-10-3
Wiring Harness Repair .....	08-10-3
Air Bag Module Inspection .....	08-10-3
Air Bag Module Handling .....	08-10-3
Side Air Bag Module Handling .....	08-10-4
SAS Control Module Handling .....	08-10-4
Side Air Bag Sensor Handling .....	08-10-4
Pre-tensioner Seat Belt Inspection ...	08-10-5
Component Handling .....	08-10-5
Component Reuse .....	08-10-5
<b>DRIVER-SIDE AIR BAG MODULE</b>	
<b>REMOVAL/INSTALLATION</b> .....	08-10-5
Connector Installation Note .....	08-10-6
<b>PASSENGER-SIDE AIR BAG MODULE</b>	
<b>REMOVAL/INSTALLATION</b> .....	08-10-6
Connector Installation Note .....	08-10-6
<b>SIDE AIR BAG MODULE</b>	
<b>REMOVAL/INSTALLATION</b> .....	08-10-7
<b>CLOCK SPRING ADJUSTMENT</b> .....	
08-10-8	
<b>CLOCK SPRING</b>	
<b>REMOVAL/INSTALLATION</b> .....	08-10-9
<b>CLOCK SPRING INSPECTION</b> .....	
08-10-10	
<b>SIDE AIR BAG SENSOR</b>	
<b>REMOVAL/INSTALLATION</b> .....	08-10-10
Connector Removal Note .....	08-10-11
Connector Installation Note .....	08-10-11
<b>SAS CONTROL MODULE</b>	
<b>REMOVAL/INSTALLATION</b> .....	08-10-12
<b>SAS CONTROL MODULE BRACKET</b>	
<b>REMOVAL/INSTALLATION</b> .....	08-10-12
<b>AIR BAG MODULE AND</b>	
<b>PRE-TENSIONER</b>	
<b>SEAT BELT DEPLOYMENT</b>	
<b>AUTHORIZATION PROCEDURES</b> ....	08-10-13
After Replacing SAS Control Module ..	08-10-13
After Replacing Side Air Bag Sensor ..	08-10-13
<b>AIR BAG MODULE AND</b>	
<b>PRE-TENSIONER</b>	
<b>SEAT BELT DEPLOYMENT</b>	
<b>PROCEDURES</b> .....	08-10-13
Deployment Procedure for	
Inside of Vehicle .....	08-10-13
Deployment Procedure for	
Outside of Vehicle .....	08-10-16
<b>AIR BAG MODULE AND</b>	
<b>PRE-TENSIONER</b>	
<b>SEAT BELT DISPOSAL</b>	
<b>PROCEDURES</b> .....	08-10-23
<b>INSPECTION OF SST</b>	
<b>(DEPLOYMENT TOOL)</b> .....	08-10-24
Inspection Procedure .....	08-10-24

# AIR BAG SYSTEM

## LOCATION INDEX

A3U081001046W01



Z3U0810W007

1	Driver-side air bag module (See 08-10-5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION)
2	Passenger-side air bag module (See 08-10-6 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION)
3	Clock spring (See 08-10-8 CLOCK SPRING ADJUSTMENT) (See 08-10-9 CLOCK SPRING REMOVAL/INSTALLATION) (See 08-10-10 CLOCK SPRING INSPECTION)
4	Driver-side side air bag module (See 08-10-7 SIDE AIR BAG MODULE REMOVAL/INSTALLATION)
5	Passenger-side side air bag module (See 08-10-7 SIDE AIR BAG MODULE REMOVAL/INSTALLATION)

6	SAS control module (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION) (See 08-10-12 SAS CONTROL MODULE BRACKET REMOVAL/INSTALLATION)
7	Driver-side side air bag sensor (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/INSTALLATION)
8	Passenger-side side air bag sensor (See 08-10-10 SIDE AIR BAG SENSOR REMOVAL/INSTALLATION)
9	Driver-side pre-tensioner seat belt (See 08-11-1 FRONT SEAT BELT REMOVAL/INSTALLATION)
10	Passenger-side pre-tensioner seat belt (See 08-11-1 FRONT SEAT BELT REMOVAL/INSTALLATION)

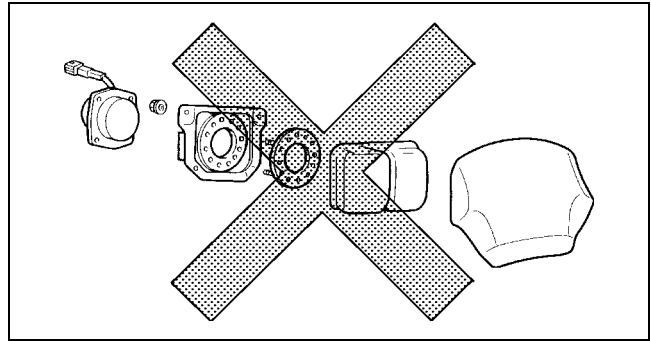
# AIR BAG SYSTEM

## AIR BAG SYSTEM SERVICE WARNINGS

A3U081001046W02

### Component Disassembly

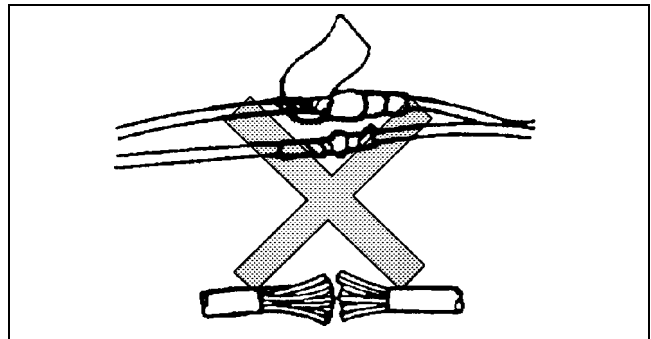
- Disassembling and reassembling the components of the air bag system can render the system inoperative, which may result in serious injury or death in the event of an accident. Do not disassemble any air bag system component.



YDE81301200

### Wiring Harness Repair

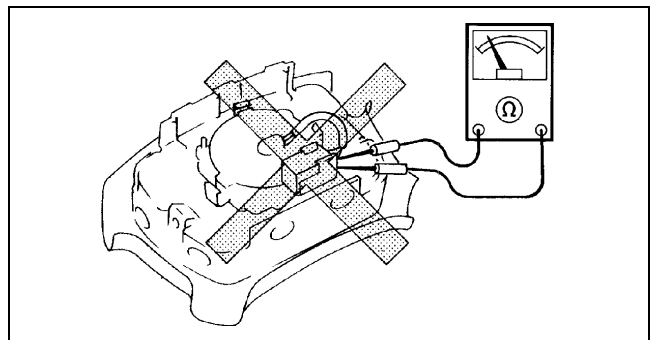
- Incorrectly repairing an air bag system wiring harness can accidentally deploy the air bag module or pre-tensioner seat belt, which can cause serious injury. If a problem is found in the system wiring, replace the wiring harness. Do not try to repair it.



YDE81301201

### Air Bag Module Inspection

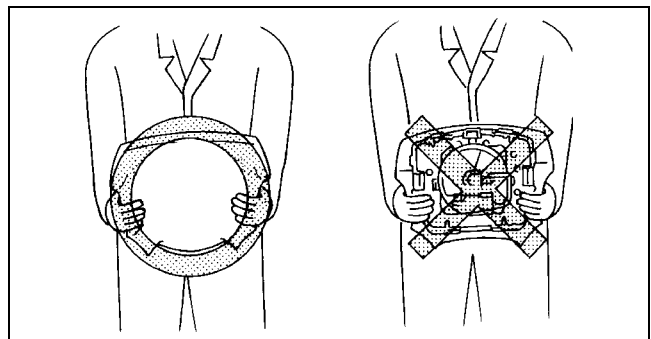
- Inspecting an air bag module using an ohmmeter can deploy the air bag module, which may cause serious injury. Do not use an ohmmeter to inspect an air bag module. Always use the on-board diagnostic function to diagnose the air bag module for malfunctions. (See 08-02-2 FOREWORD.)



X3U810WA2

### Air Bag Module Handling

- A live (undeployed) air bag module may accidentally deploy when it is handled and cause serious injury. When carrying a live (undeployed) air bag module, point the front surface away from your body to lessen the chance of injury in case it deploys.

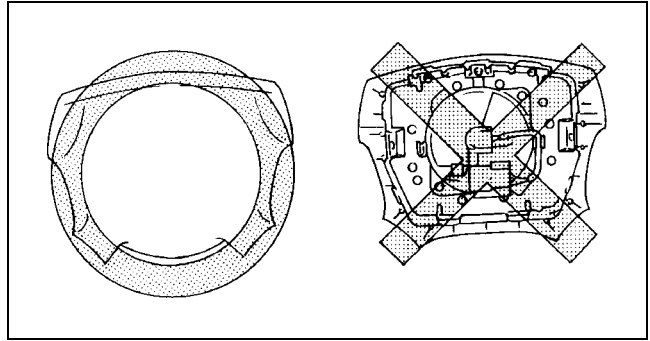


YDE81301004

08-10

## AIR BAG SYSTEM

- A live (undeployed) air bag module placed face down on a surface is dangerous. If the air bag module deploys, the motion of the module can cause serious injury. Always face the front surface up to reduce the motion of the module in case it accidentally deploys.



YDE81301005

### Side Air Bag Module Handling

- When the side air bag module deploys due to a collision, the interior of the seat back (pad, frame, etc.) may become damaged. If the seat back is reused and the side air bag module does not deploy properly, a serious accident may result. When the side air bag module deploys, always replace both the side air bag module and the seat back (pad, frame, trim) with new parts. After service, confirm that the seat operates normally and that the harness is positioned properly.

### SAS Control Module Handling

- Disconnecting the SAS control module connector or removing the SAS control module with the ignition switch at ON position can cause the air bag modules to deploy, which may seriously injure you. Before disconnecting the SAS control module connector or removing the SAS control module, turn the ignition switch to LOCK position, then disconnect the negative battery cable and wait for more than 1 minute to allow the backup power supply of the SAS control module to deplete its stored power.
- Connecting the SAS control module connector without firmly installing the SAS control module to the vehicle is dangerous. The crash sensor inside the control module may send an electrical signal to the air bag modules. This will deploy the air bag modules, which may result in serious injury. Therefore, before connecting the connector, firmly mount the control module to the vehicle.
- For vehicles with a single point sensor, once an air bag module is deployed due to an accident or other causes, the SAS control module must be replaced with a new one even if the used one does not have any external signs of damage. The used SAS control module may have been damaged internally which may cause improper operation, resulting in major injuries or even death. The used single point SAS control module cannot be bench-checked or self-checked.

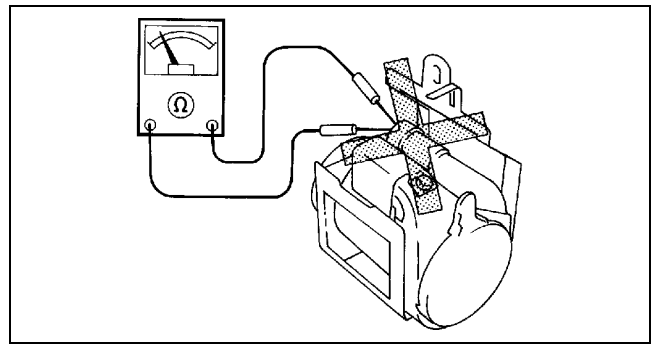
### Side Air Bag Sensor Handling

- Disconnecting the side air bag sensor connector or removing the side air bag sensor with the ignition switch at ON position can cause the side air bag sensor to operate and the side air bag module to deploy, which may seriously injure you. Before disconnecting the side air bag sensor connector or removing the side air bag sensor, always turn the ignition switch to LOCK position, then disconnect the negative battery cable and wait for more than 1 minute to allow the backup power supply of the SAS control module to deplete its stored power.
- If the side air bag sensor is subjected to shock or the sensor is disassembled, the side air bag module may operate (deploy) suddenly and cause injury, or it may fail to operate normally and cause a serious accident. Do not subject the side air bag sensor to shock or disassemble the sensor.
- Because a sensor is built into the side air bag sensor, when the side air bag module operates (deploys), there may be a problem, such as an internal malfunction, even if there is not any external damage or deformation. If the side air bag sensor is reused, the side air bag module may fail to operate normally and cause a serious injury. Always replace the side air bag sensor with a new part. The side air bag sensor cannot be bench-checked or self-checked.

# AIR BAG SYSTEM

## Pre-tensioner Seat Belt Inspection

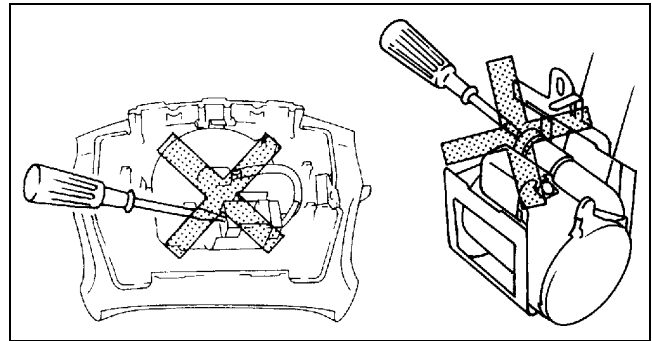
- Inspecting a pre-tensioner seat belt using an ohmmeter can deploy the pre-tensioner seat belt, which can cause serious injury. Do not use an ohmmeter to inspect the pre-tensioner seat belt. Always use the on-board diagnostic to diagnose the pre-tensioner seat belt for malfunctions.



Z3U0810W003

## Component Handling

- Oil, grease, water, etc. on components may cause the air bag modules and pre-tensioner seat belt to fail to deploy in an accident, which may cause serious injury. Do not allow oil, grease, water, etc., on components.
- Inserting a screwdriver, etc. into the connector of an air bag module or a pre-tensioner seat belt may damage the connector and cause the air bag module to deploy improperly, which may cause serious injury. Do not insert any foreign objects into the connector.



Z3U0810W004

08-10

## Component Reuse

- Even if an air bag module or a pre-tensioner seat belt does not deploy in a collision and does not have any external signs of damage, it may have been damaged internally, which may cause improper operation. Improper operation may cause serious injury. Always self-check the undamaged air bag module or pre-tensioner seat belt to determine whether it can be reused. (See 08-02-2 FOREWORD.)

## DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION

A3U081057010W01

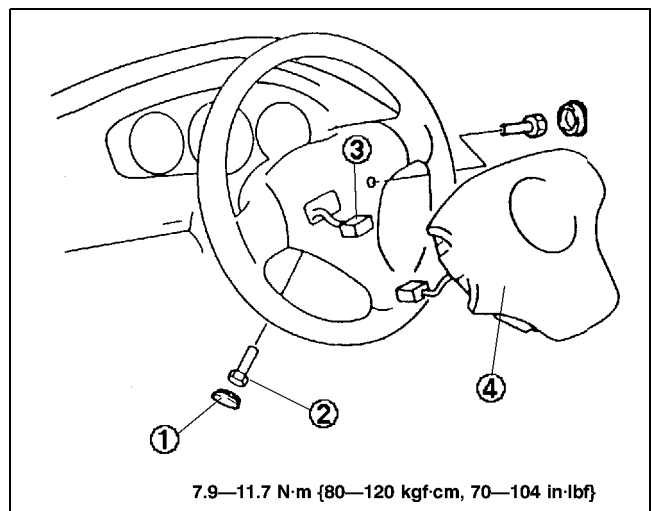
### Warning

- Handling the air bag module improperly can accidentally deploy the air bag module, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the air bag module. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

- Turn the ignition switch to LOCK position.
- Disconnect the negative battery cable and wait for **more than 1 minute**.
- Remove in the order indicated in the table.

1	Cover
2	Bolt
3	Connector (See 08-10-6 Connector Installation Note)
4	Driver-side air bag module

- Install in the reverse order of removal.
- Turn the ignition switch to ON position.
- Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.
  - If the air bag system warning light does not operate in the manner described above, there are malfunctions in the system. Inspect the system using the on-board diagnostic function. (See 08-02-2 FOREWORD.)

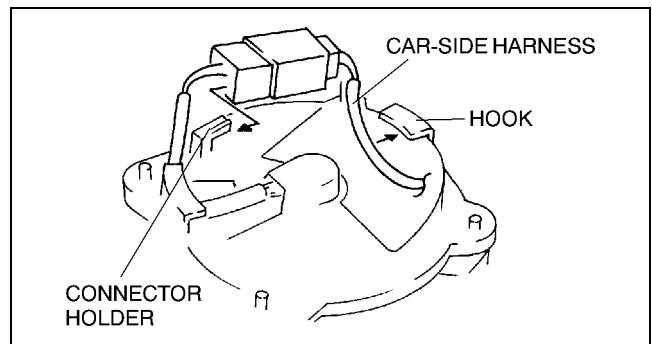


A3U0810W101

# AIR BAG SYSTEM

## Connector Installation Note

1. Install the connector and secure the car-side harness onto the hook as shown in the figure.



A3U0810W002

## PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION

A3U081057050W01

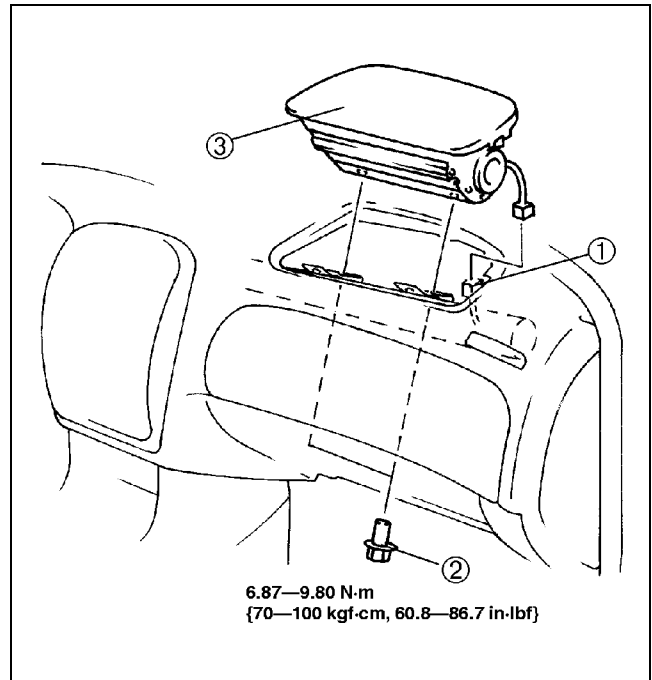
### Warning

- Handling the air bag module improperly can accidentally deploy the air bag module, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the air bag module. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

1. Turn the ignition switch to LOCK position.
2. Disconnect the negative battery cable and wait for **more than 1 minute**.
3. Remove the glove compartment.
4. Remove in the order indicated in the table.

1	Connector (See 08-10-6 Connector Installation Note)
2	Bolt
3	Passenger-side air bag module

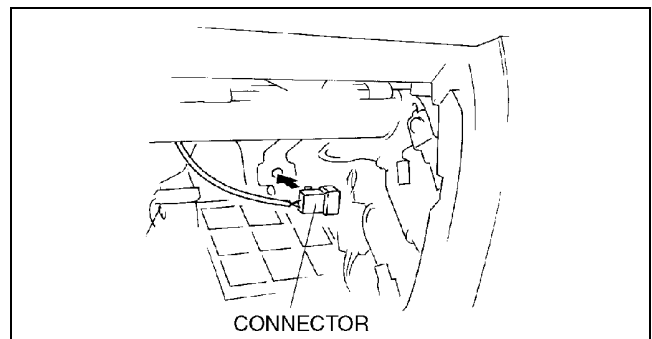
5. Install in the reverse order of removal.
6. Turn the ignition switch to ON position.
7. Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.
  - If the air bag system warning light does not operate in the manner described above, there are malfunctions in the system. Inspect the system using the on-board diagnostic function. (See 08-02-2 FOREWORD.)



X3U810WAA

## Connector Installation Note

1. Install the connector as shown in the figure.



Y3U810WAN



# AIR BAG SYSTEM

## SIDE AIR BAG MODULE REMOVAL/INSTALLATION

A3U081000147W01

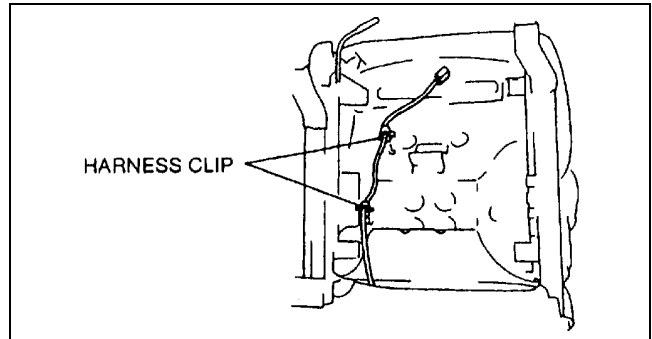
### Warning

- Handling the air bag module improperly can accidentally deploy the air bag module, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the air bag module. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

### Warning

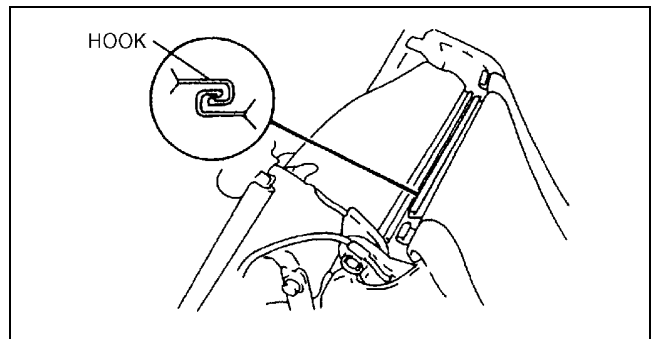
- If the side air bag module is installed with a foreign body in the seat back, the debris may be scattered when the side air bag module operates (deploys), causing injury. Verify that there is no foreign body in the seat back before installing the side air bag module.

1. Remove the front seat. (See 09-13-1 FRONT SEAT REMOVAL/INSTALLATION.)
2. Remove the harness clips.



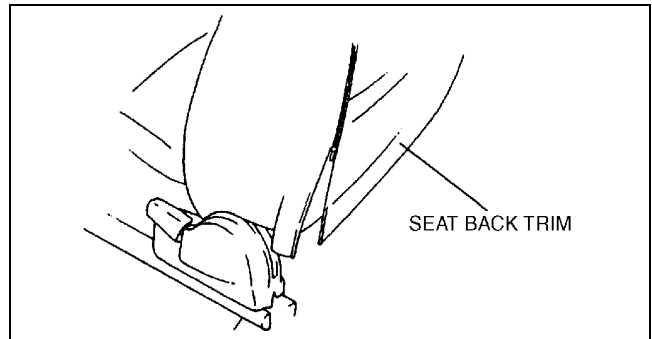
Y3U810WA2

3. Undo the hook on the seat back cushion.



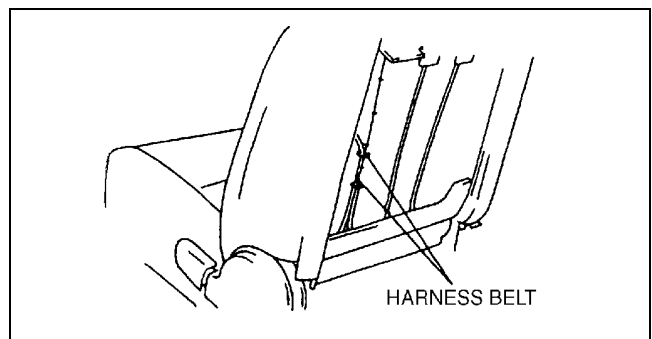
Y3U810WA3

4. Unzip the seat back trim.



Y3U810WA4

5. Remove the harness belts.

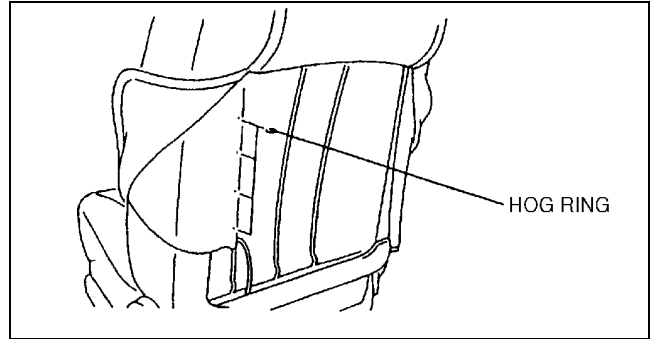


Y3U810WA5

08-10

## AIR BAG SYSTEM

6. Remove the hog rings.
7. Turn over the seat back cushion.

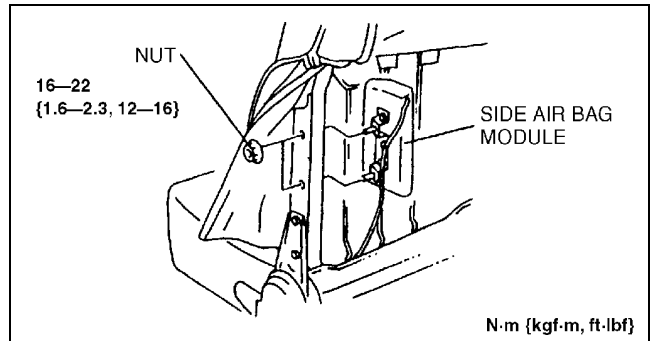


Y3U810WA6

8. Remove the nuts to remove the side air bag module.

### Warning

- If the air bag harness is not secured at the marked point or the harness is caught, the side air bag module may fail to operate (deploy) in an accident, causing a serious accident. Be sure to secure the air bag harness at the marked point, and make sure the harness is not caught during operation of the seat.



N·m {kgf·m, ft·lbf}

Y3U810WA7

9. Install in the reverse order of removal.
10. Turn the ignition switch to ON position.
11. Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.
  - If the air bag system warning light does not operate in the manner described above, there are malfunctions in the system. Inspect the system using the on-board diagnostic function. (See 08-02-2 FOREWORD.)

## CLOCK SPRING ADJUSTMENT

A3U081066123W01

### Note

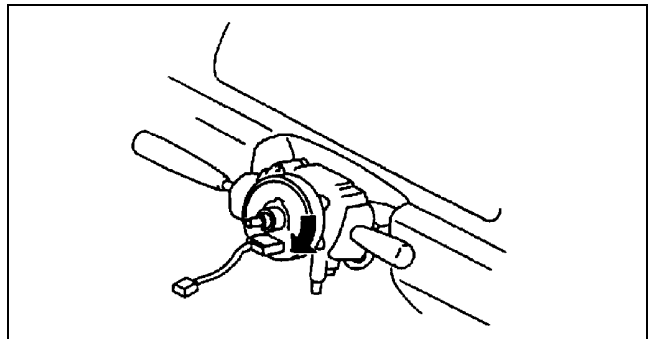
- The adjustment procedure is also specified on the caution label of the clock spring.

1. Set the front wheels straight ahead.

### Caution

- The clock spring will break if over-wound. Do not forcibly turn the clock spring when turning it.

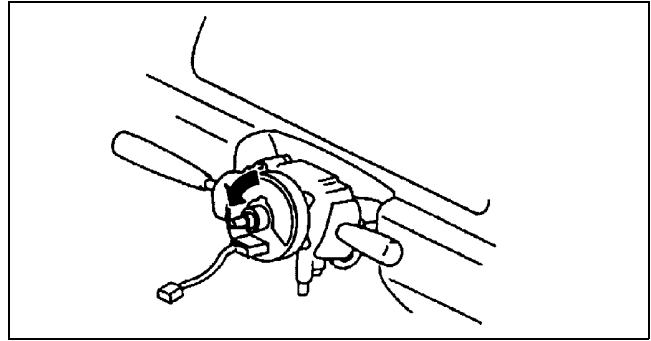
2. Turn the clock spring clockwise until it stops.



X3U810WAF

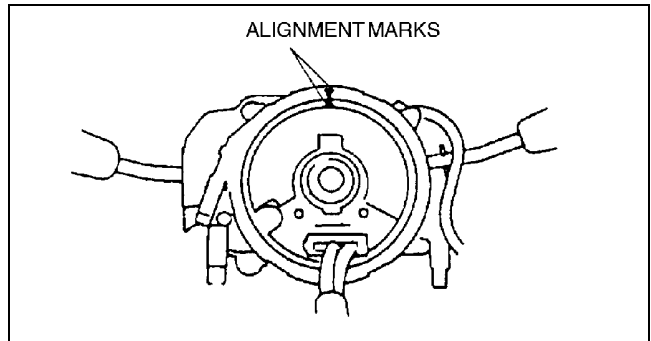
# AIR BAG SYSTEM

- Turn the clock spring counterclockwise **2 3/4 turns**.



X3U810WAG

- Align the mark on the clock spring with the mark on the outer housing.



X3U810WAH

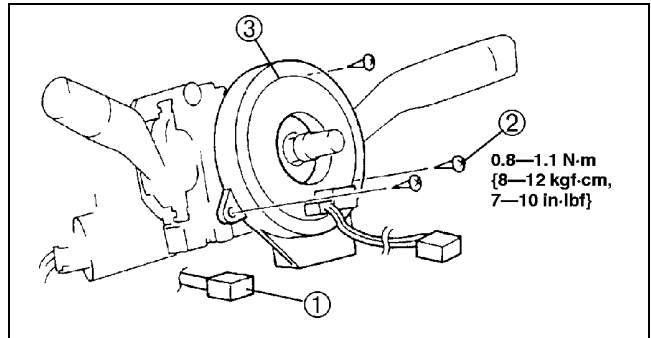
## CLOCK SPRING REMOVAL/INSTALLATION

A3U081066123W02

- Disconnect the negative battery cable.
- Remove the driver-side air bag module. (See 08-10-5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
- Remove the steering wheel. (See 06-12-6 STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
- Remove the column cover.
- Remove in the order indicated in the table.

1	Connector
2	Screw
3	Clock spring

- Install in the reverse order of removal.



X3U810WAE

# AIR BAG SYSTEM

## CLOCK SPRING INSPECTION

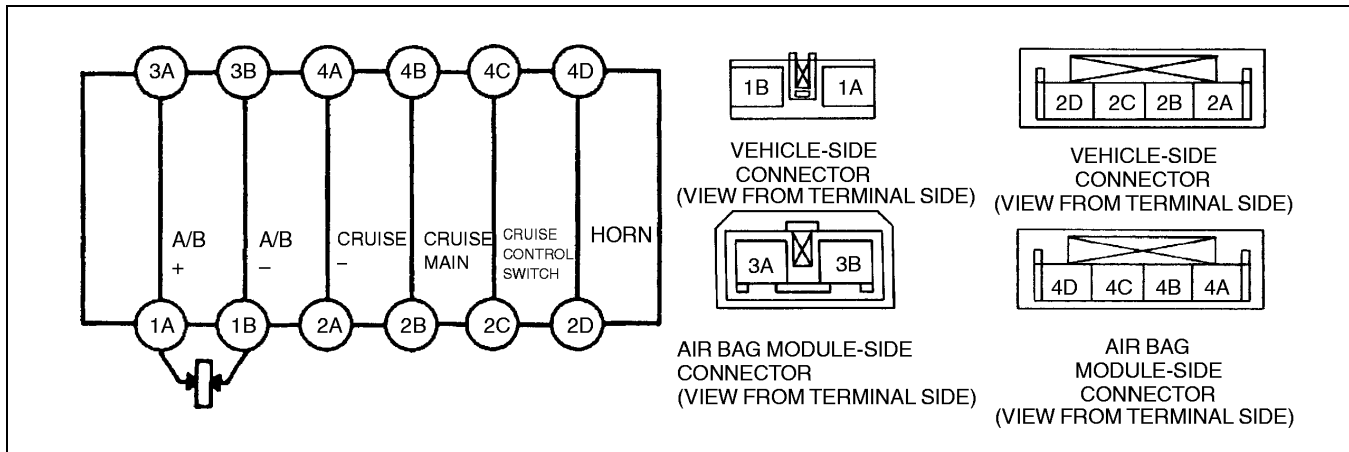
A3U081066123W03

1. Remove the clock spring. (See 08-10-9 CLOCK SPRING REMOVAL/INSTALLATION.)
2. Inspect for continuity between the clock spring terminals using an ohmmeter.
  - If not as specified, replace the clock spring.

○—○ : Continuity

Test condition	Terminal											
	1A	1B	2A	2B	2C	2D	3A	3B	4A	4B	4C	4D
Constant	○	○					○	○				
			○						○			
				○						○		
					○						○	
						○						○

Y3U810WAJ



Y3U810WAJ

### Note

- When the vehicle-side connector of clock spring is disconnected, the terminals 1A and 1B are shorted to prevent unexpected deployment of the air bag module. When it is connected, the terminals are open.

## SIDE AIR BAG SENSOR REMOVAL/INSTALLATION

A3U081000146W01

### Warning

- Handling the side air bag sensor improperly can accidentally deploy the side air bag module, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the side air bag sensor. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

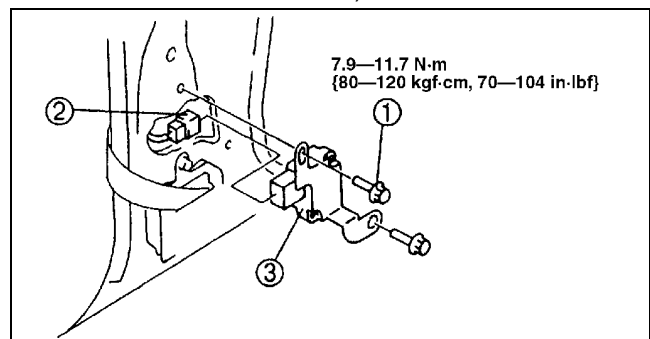
1. Turn the ignition switch to LOCK position.
2. Disconnect the negative battery cable and wait for **more than 1 minute**.
3. Remove the B-pillar lower trim. (See 09-17-10 B-PILLAR LOWER TRIM REMOVAL.)
4. Remove in the order indicated in the table.

1	Bolt
2	Connector (See 08-10-11 Connector Removal Note) (See 08-10-11 Connector Installation Note)
3	Side air bag sensor

5. Install in the reverse order of removal.

### Note

- When a new side air bag sensor has been installed, perform the air bag module deployment authorization procedure. (See 08-10-13 AIR BAG MODULE AND PRE-TENSIONER SEAT BELT DEPLOYMENT AUTHORIZATION PROCEDURES.)



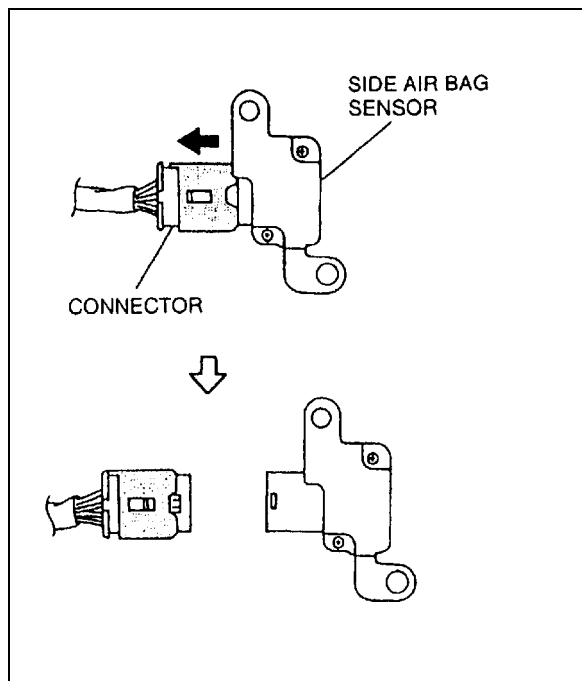
Y3U810WA9

## AIR BAG SYSTEM

6. Turn the ignition switch to ON position.
7. Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.
  - If the air bag system warning light does not operate in the manner described above, there are malfunctions in the system. Inspect the system using the on-board diagnostic function. (See 08-02-2 FOREWORD.)

### Connector Removal Note

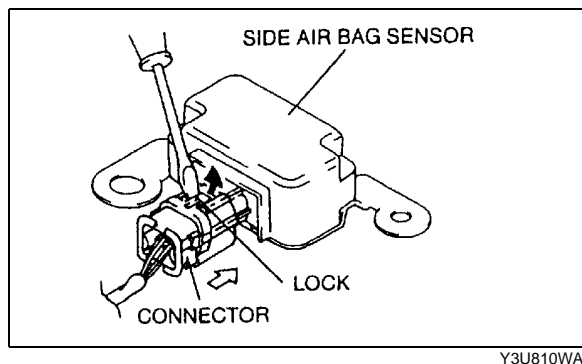
1. Slide the connector cover toward the harness and then disconnect the connector from the side air bag sensor.



08-10

### Connector Installation Note

1. Attach the connector to the side air bag sensor.
2. Connect the connector by attaching it to the side air bag sensor while lifting up the lock on the connector with a flathead screwdriver.



# AIR BAG SYSTEM

## SAS CONTROL MODULE REMOVAL/INSTALLATION

A3U081057030W01

### Warning

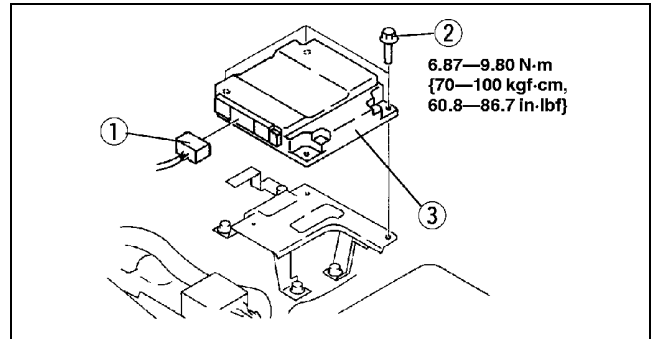
- Handling the SAS control module improperly can accidentally deploy the air bag modules, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the SAS control module. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

1. Turn the ignition switch to LOCK position.
2. Disconnect the negative battery cable and wait for **more than 1 minute**.
3. Remove the side walls.
4. Remove in the order indicated in the table.

1	Connector
2	Bolt
3	SAS control module

5. Install in the reverse order of removal.
6. Turn the ignition switch to ON position.
7. Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.

- If the air bag system warning light does not operate in the manner described above, there are malfunctions in the system. Inspect the system using the on-board diagnostic function. (See 08-02-2 FOREWORD.)



X3U810WAC

### Note

- When a new SAS control module has been installed, the air bag system warning light flashes continuously if there aren't any malfunctions in the system. Perform the air bag module deployment authorization procedure. (See 08-10-13 AIR BAG MODULE AND PRE-TENSIONER SEAT BELT DEPLOYMENT AUTHORIZATION PROCEDURES.)

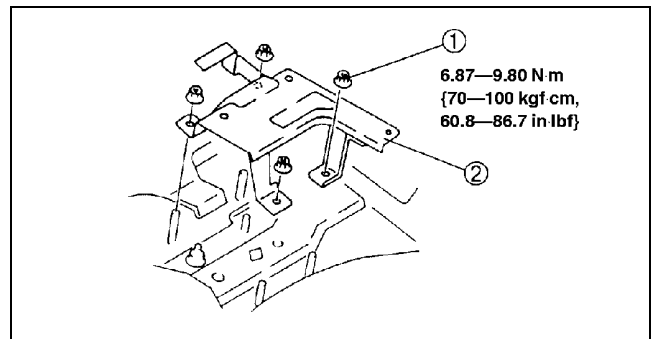
## SAS CONTROL MODULE BRACKET REMOVAL/INSTALLATION

A3U081057030W02

1. Remove the SAS control module. (See 08-10-12 SAS CONTROL MODULE REMOVAL/INSTALLATION.)
2. Remove in the order indicated in the table.

1	Nut
2	SAS control module bracket

3. Install in the reverse order of removal.



X3U810WAD

# AIR BAG SYSTEM

## AIR BAG MODULE AND PRE-TENSIONER SEAT BELT DEPLOYMENT AUTHORIZATION PROCEDURES

A3U081057000W01

### Note

- When replacing both the SAS control module and side air bag sensor together, perform only “After Replacing SAS Control Module”

### After Replacing SAS Control Module

1. Install a new SAS control module.
  - (1) Turn the ignition switch to ON position.
  - (2) Verify that the air bag system warning light illuminates for **approximately 6 seconds**, goes off, and then flashes continuously.
    - If the air bag system warning light does not flash continuously and indicates a DTC, inspect the system using the on-board diagnostic function. (See 08–02–2 FOREWORD.) When the malfunctions have been repaired and the air bag system warning light flashes continuously, turn the ignition switch to LOCK position. Wait for **approximately 1 second or more** and then turn the ignition switch back to ON position.
    - If the air bag system warning light flashes continuously, turn the ignition switch to LOCK position. Wait for **approximately 1 second or more** and then turn the ignition switch back to ON position.
2. Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.
  - If the light stays on, perform the deployment authorization procedure again.

### After Replacing Side Air Bag Sensor

1. Install a new side air bag sensor.
2. Turn the ignition switch to ON position.
3. Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.
  - If the light stays on, perform the deployment authorization procedure again.

08–10

## AIR BAG MODULE AND PRE-TENSIONER SEAT BELT DEPLOYMENT PROCEDURES

A3U081057000W02

### Warning

- **A live (undeployed) air bag module and pre-tensioner seat belt may accidentally deploy when it is disposed of and cause serious injury. Do not dispose of a live (undeployed) air bag module. If the SSTs (Deployment tool and Adapter harness) are not available, consult the nearest Mazda representative for assistance.**

### Caution

- **Deploying the air bag modules inside the vehicle may cause damage to the vehicle interior. When the vehicle is not to be scrapped, always deploy the air bag modules and pre-tensioner seat belts outside the vehicle.**
- When the vehicle is to be scrapped, deploy the air bag modules and pre-tensioner seat belts inside the vehicle. (See 08–10–13 Deployment Procedure for Inside of Vehicle.)
- When the vehicle is not to be scrapped, deploy the air bag modules and pre-tensioner seat belts outside the vehicle. (See 08–10–16 Deployment Procedure for Outside of Vehicle.)

### Note

- When disposing of a deployed air bag module, refer to air bag module and pre-tensioner seat belt disposal procedure. (See 08–10–23 AIR BAG MODULE AND PRE-TENSIONER SEAT BELT DISPOSAL PROCEDURES.)

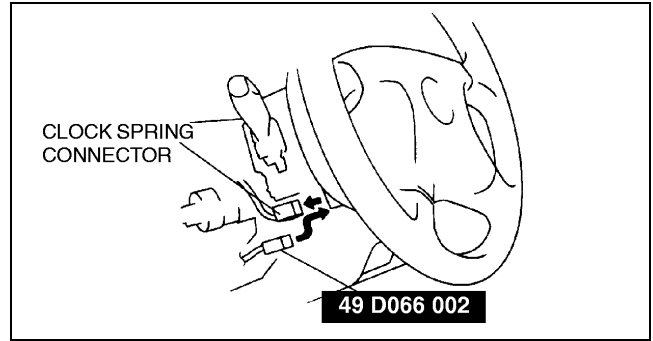
### Deployment Procedure for Inside of Vehicle

1. Inspect the **SST** (Deployment tool). (See 08–10–24 INSPECTION OF SST (DEPLOYMENT TOOL).)
2. Move the vehicle to an open space, away from strong winds, and close all of the vehicle's doors and windows.
3. Turn the ignition switch to LOCK position.
4. Disconnect the negative battery cable and wait for **more than 1 minute**.
5. Follow the appropriate procedure for deploying the driver-side air bag module, passenger-side air bag module, or side air bag module.

# AIR BAG SYSTEM

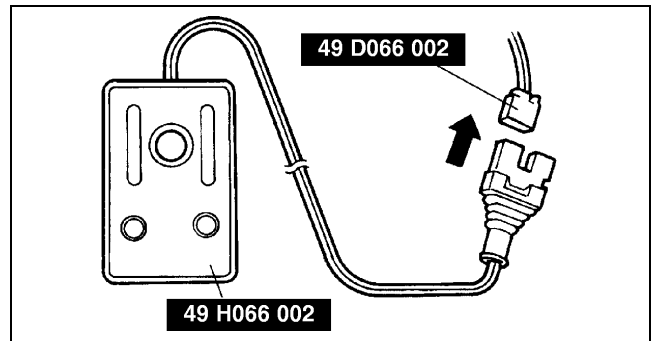
## Driver-side air bag module

1. Remove the column cover.
2. Disconnect the clock spring connector.
3. Connect the **SST** (Adapter harness) to the clock spring as shown in the figure.



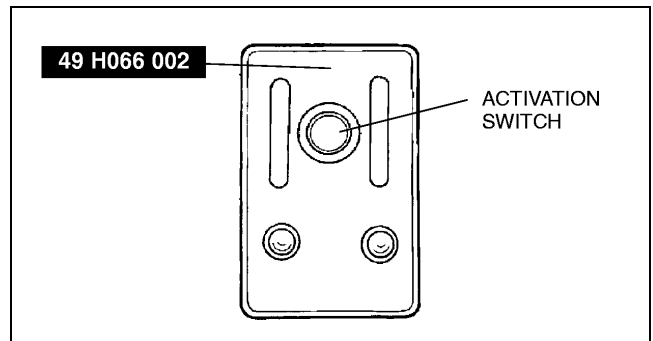
X3U810WAL

4. Connect the **SST** (Deployment tool) to the **SST** (Adapter harness).
5. Connect the red clip of the **SST** (Deployment tool) to the positive battery terminal and the black clip to the negative battery terminal.
6. Verify that the red light on the **SST** (Deployment tool) is illuminated.
7. Make sure all persons are standing **at least 6 m {20 ft}** away from the vehicle.



X3U810WAM

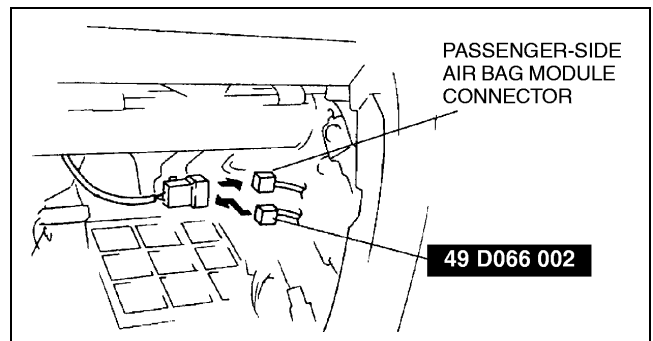
8. Press the activation switch on the **SST** (Deployment tool) to deploy the driver-side air bag module.



X3U810WAN

## Passenger-side air bag module

1. Remove the glove compartment.
2. Disconnect the passenger-side air bag module connector.
3. Connect the **SST** (Adapter harness) to the passenger-side air bag module as shown in the figure.

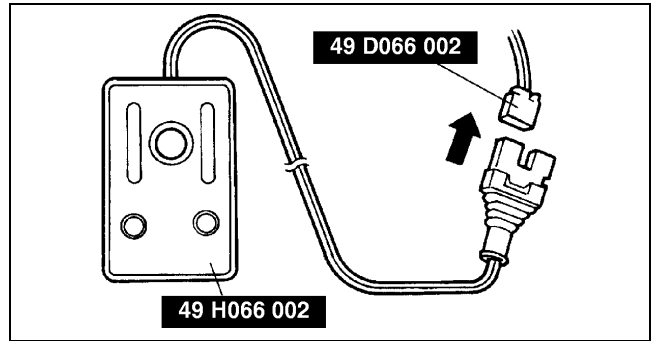


X3U810WAP

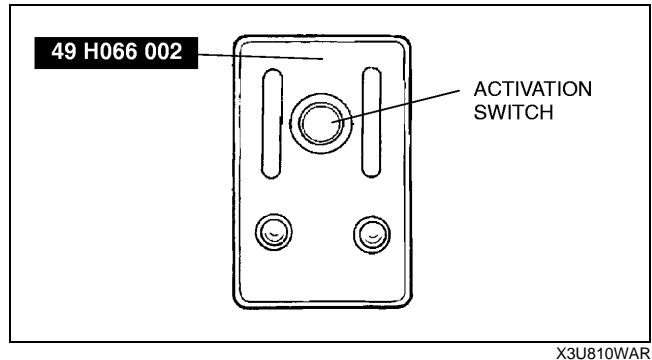


## AIR BAG SYSTEM

4. Connect the **SST** (Deployment tool) to the **SST** (Adapter harness).
5. Connect the red clip of the **SST** (Deployment tool) to the positive battery terminal and the black clip to the negative battery terminal.
6. Verify that the red light on the **SST** (Deployment tool) is illuminated.
7. Make sure all persons are standing **at least 6 m {20 ft}** away from the vehicle.

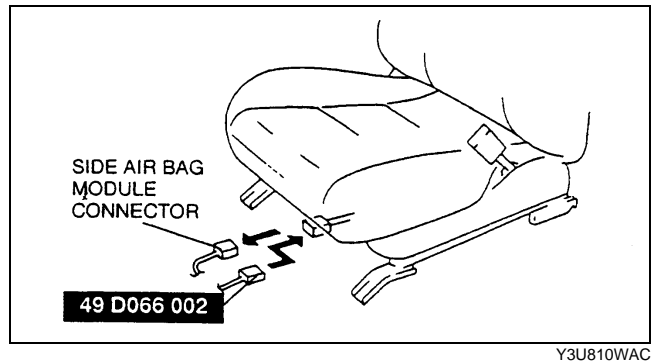


8. Press the activation switch on the **SST** (Deployment tool) to deploy the passenger-side air bag module.

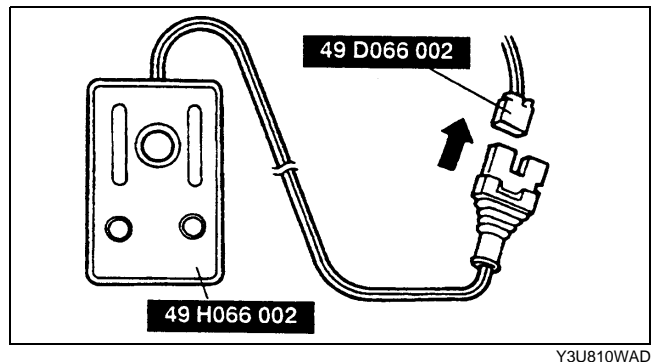


### Side air bag module

1. Disconnect the side air bag module connector.
2. Connect the **SST** (Adapter harness) to the side air bag module.

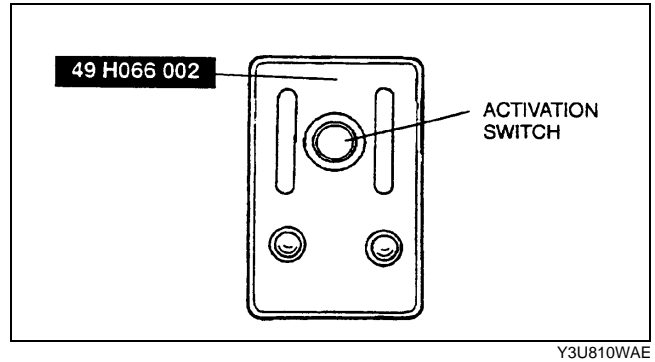


3. Connect the **SST** (Deployment tool) to the **SST** (Adapter harness).
4. Connect the red clip of the **SST** (Deployment tool) to the positive battery terminal and the black clip to the negative battery terminal.
5. Verify that the red light on the **SST** (Deployment tool) is illuminated.
6. Make sure all persons are standing **at least 6 m {20ft}** from the vehicle.



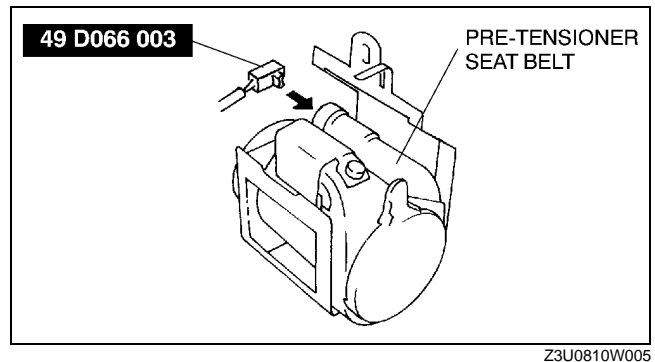
## AIR BAG SYSTEM

7. Press the activation switch on the **SST** (Deployment tool) to deploy the side air bag module.

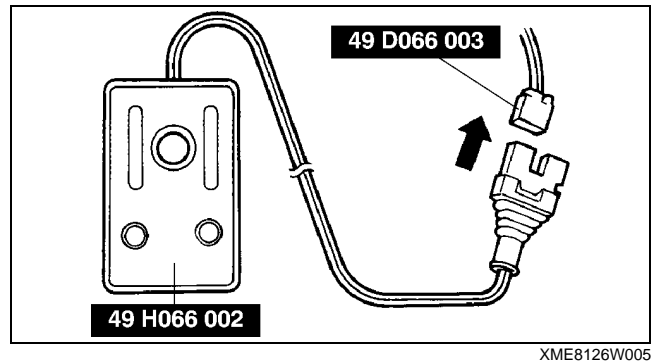


### Pre-tensioner seat belt

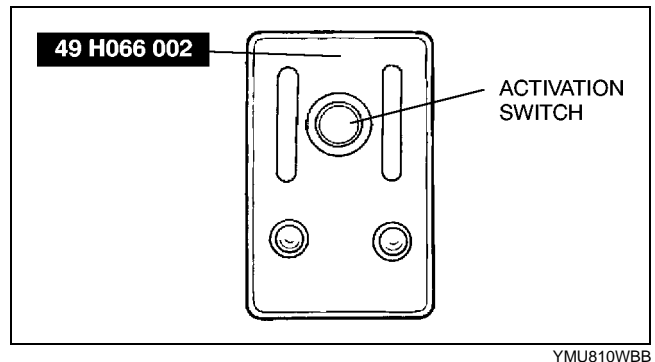
1. Remove the B-pillar lower trim.
2. Remove the pre-tensioner seat belt and connect the **SST** (49 D066 003) to it as shown in the figure.
3. Install the pre-tensioner seat belt.



4. Connect the **SST** (49 H066 002) to the **SST** (49 D066 003).
5. Connect the red clip of the **SST** (49 H066 002) to the positive battery terminal and the black clip to the negative battery terminal.
6. Verify that the red light on the **SST** (49 H066 002) is illuminated.
7. Make sure all persons are standing **at least 6 m {20 ft}** from the vehicle.



8. Press the activation switch on the **SST** (49 H066 002) to deploy the pre-tensioner seat belt.



### Deployment Procedure for Outside of Vehicle

1. Inspect the **SST** (Deployment tool). (See 08-10-24 INSPECTION OF SST (DEPLOYMENT TOOL).)
2. Turn the ignition switch to LOCK position.
3. Disconnect the negative battery cable and wait for **more than 1 minute**.
4. Follow the appropriate procedure for deploying the driver-side air bag module, passenger-side air bag module, or side air bag module.

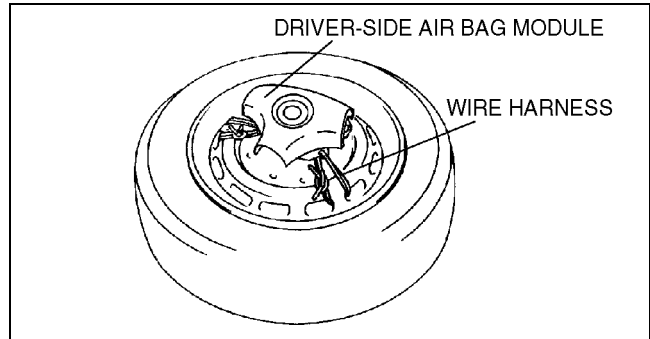
# AIR BAG SYSTEM

## Driver-side air bag module

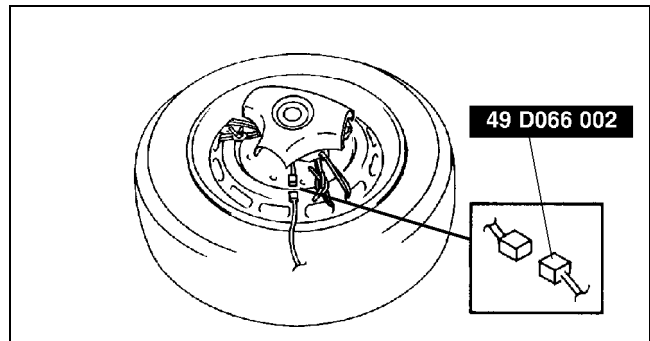
1. Remove the driver-side air bag module. (See 08–10–5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
2. Place the driver-side air bag module on the center of the wheel with the module facing up. See the illustration below.
  - To secure the air bag module to the wheel, wrap the wire harness through the wheel and the bolt installation hole **at least 4 times**.

### Warning

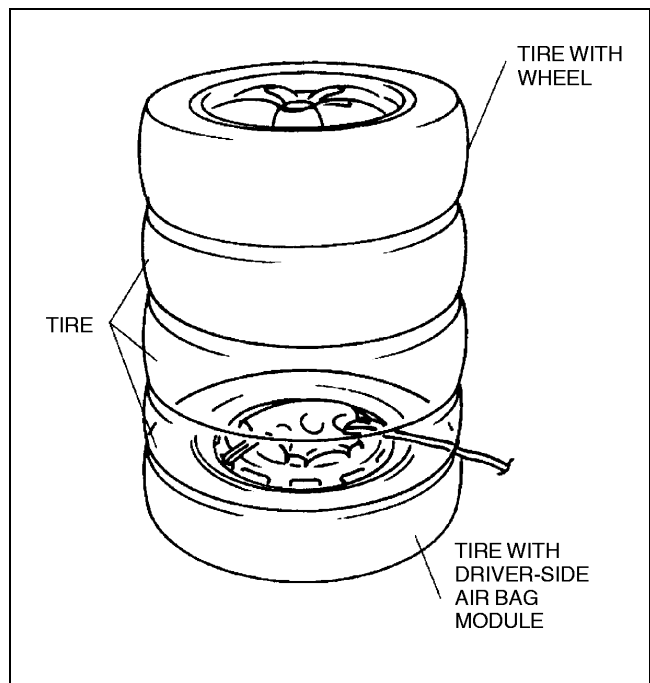
- **If the air bag module is not properly installed to the wheel, serious injury may occur when the module is deployed. When installing the air bag module to the wheel, make sure the module is facing up.**



3. Connect the **SST** (Adapter harness) to the driver-side air bag module as shown in the figure.



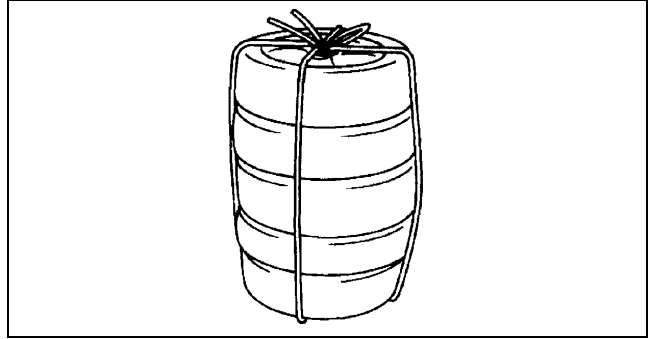
4. Stack 3 tires on top of the tire with the air bag module. Stack another tire that has a wheel on top of the 4 tires.



08-10

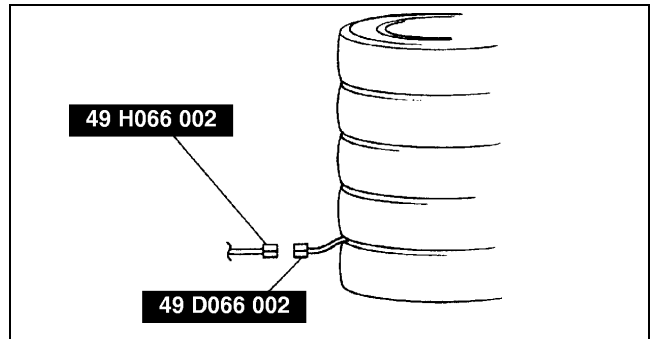
## AIR BAG SYSTEM

5. Tie all tires together with wire.



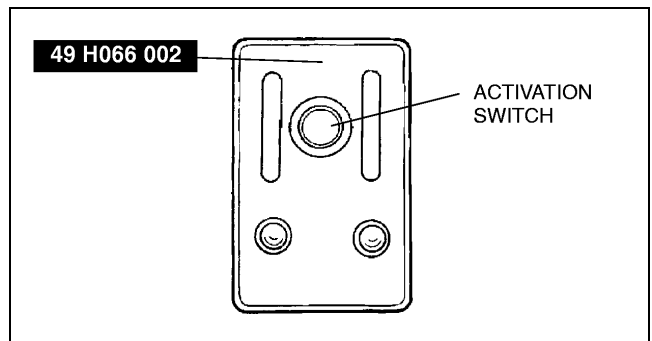
X3U810WAX

6. Connect the **SST** (Deployment tool) to the **SST** (Adapter harness).
7. Connect the red clip of the **SST** (Deployment tool) to the positive battery terminal and the black clip to the negative battery terminal.
8. Verify that the red light on the **SST** (Deployment tool) is illuminated.
9. Make sure all persons are standing **at least 6 m {20 ft}** away from the tires.



X3U810WAY

10. Press the activation switch on the **SST** (Deployment tool) to deploy the driver-side air bag module.



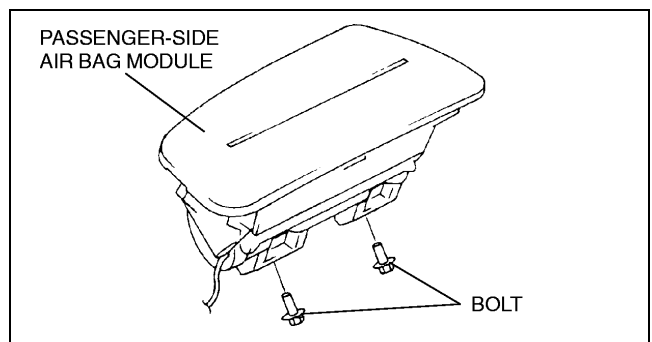
X3U810WAZ

### Passenger-side air bag module

1. Remove the passenger-side air bag module. (See 08-10-6 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
2. Install the bolts to the passenger-side air bag module.

#### Warning

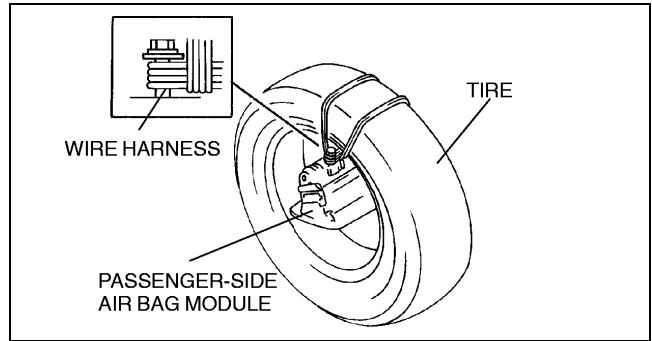
- If the air bag module is not properly installed to the tire, serious injury may occur when the module is deployed. When installing the air bag module to the tire, make sure the module is facing the center of the tire.



X3U810WB0

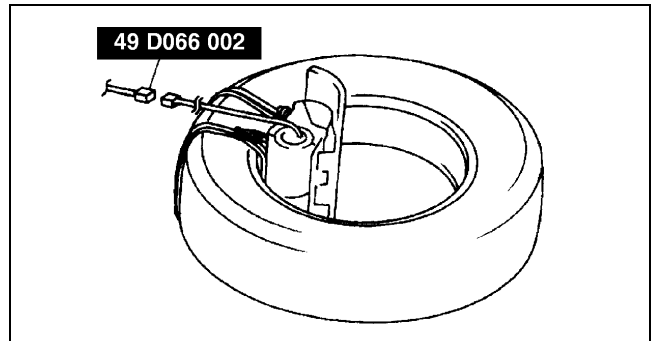
# AIR BAG SYSTEM

3. Tie the passenger-side air bag module to a tire with the module facing the center of the tire. Wrap the wire harness through the tire and around the bolts **at least four times**.



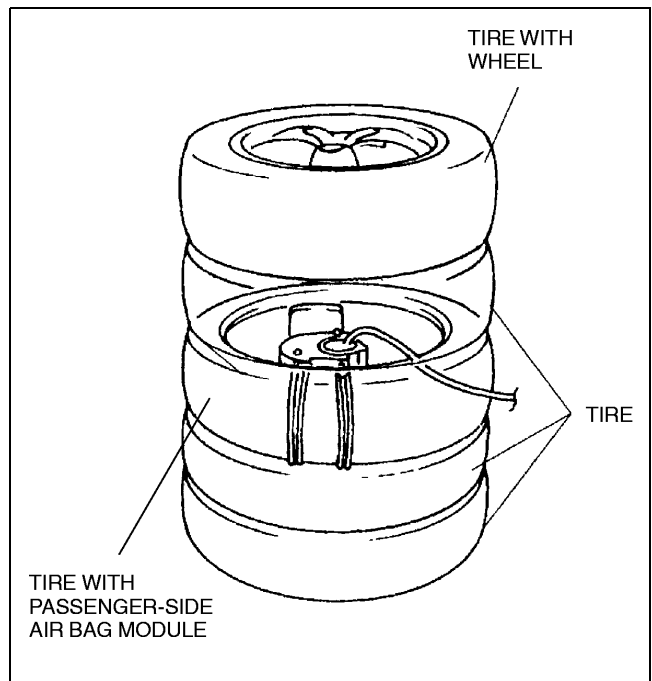
X3U810WB1

4. Connect the **SST** (Adapter harness) to the passenger-side air bag module as shown in the figure.



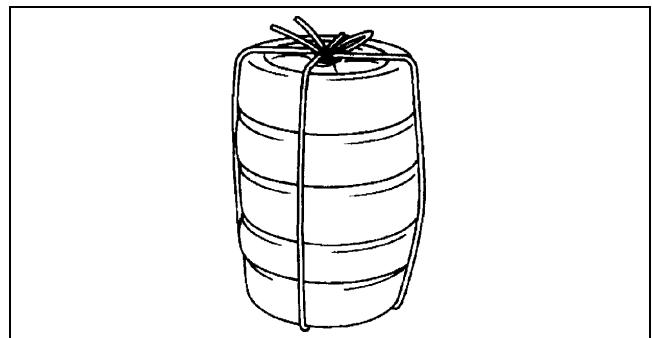
X3U810WB2

5. Stack the tire with the passenger-side air bag module on top of 2 tires. Stack a tire on top of the 3 tires. Stack another tire that has a wheel on top of the 4 tires.



X3U810WB3

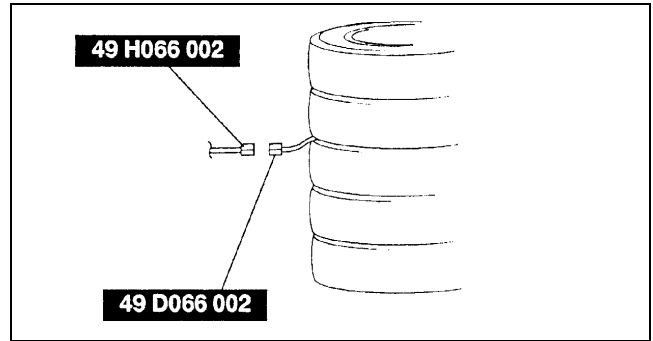
6. Tie all tires together with wire.



08-10

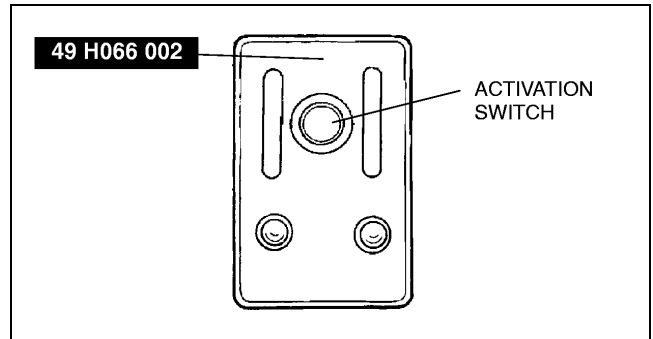
## AIR BAG SYSTEM

7. Connect the **SST** (Deployment tool) to the **SST** (Adapter harness).
8. Connect the red clip of the **SST** (Deployment tool) to the positive battery terminal and the black clip to the negative battery terminal.
9. Verify that the red light on the **SST** (Deployment tool) is illuminated.
10. Make sure all persons are standing **at least 6 m {20 ft}** away from the tires.



X3U810WB5

11. Press the activation switch on the **SST** (Deployment tool) to deploy the passenger-side air bag module.



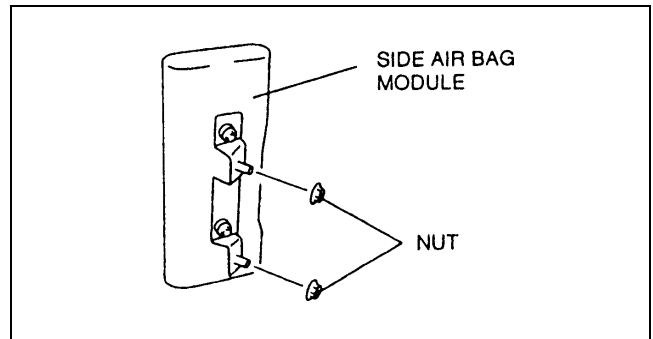
X3U810WB6

### Side air bag module

1. Remove the side air bag module. (See 08–10–7 SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
2. Install the nuts to the side air bag module.

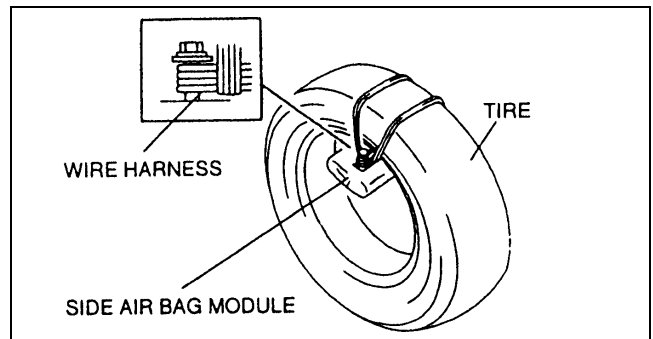
#### Warning

- If the air bag module is not properly installed to the tire, serious injury may occur when the module is deployed. When installing the air bag module to the tire, make sure the module is facing the center of the tire.



Y3U810WAF

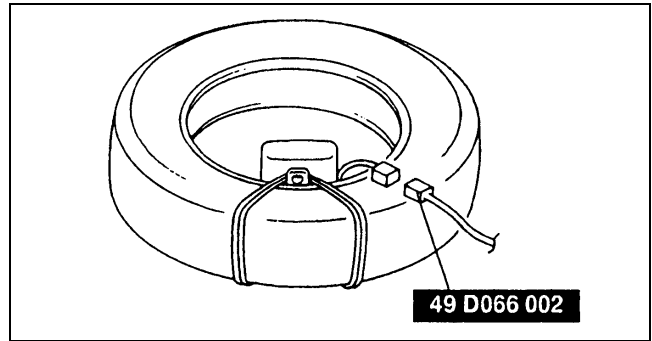
3. Tie the side air bag module to the tire with the module facing the center of the tire. Wrap the wire harness through the tire and around the nuts **at least 4 times**.



Y3U810WAG

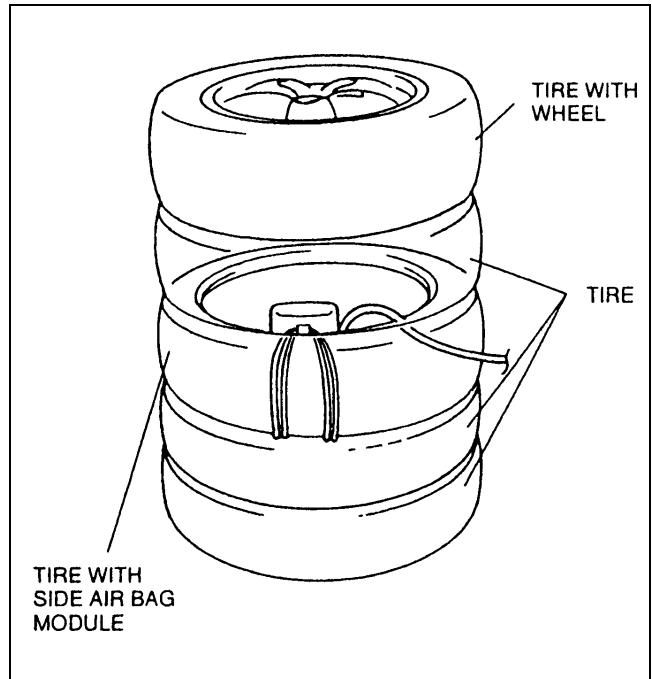
## AIR BAG SYSTEM

4. Connect the **SST** (Adapter harness) to the side air bag module as shown in the figure.



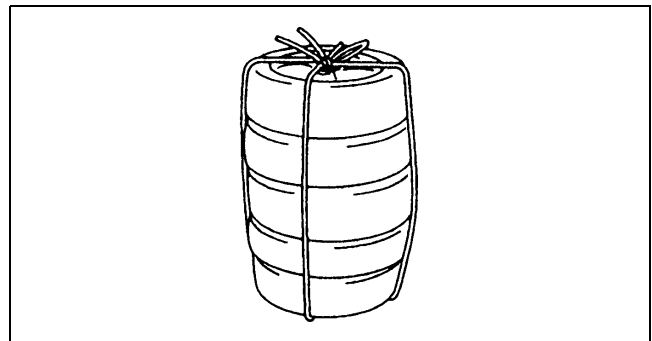
Y3U810WAH

5. Stack the tire with the side air bag module on top of 2 tires. Stack a tire on top of 3 tires. Stack another tire that has a wheel on top of the 4 tires.



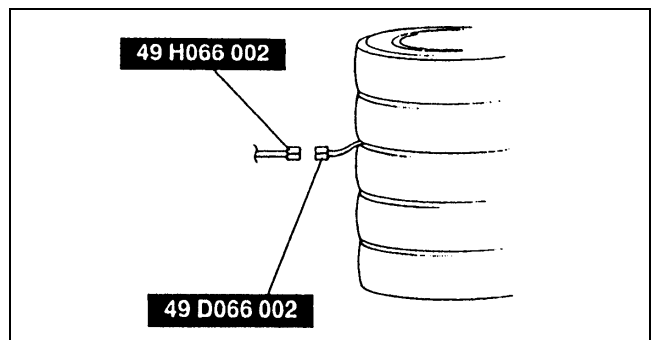
Y3U810WAJ

6. Tie all tires together with wire.



Y3U810WAK

7. Connect the **SST** (Deployment tool) to the **SST** (Adapter harness).
8. Connect the red clip of the **SST** (Deployment tool) to the positive battery terminal and the black clip to the negative battery terminal.
9. Verify that the red light on the **SST** (Deployment tool) is illuminated.
10. Make sure all persons are standing **at least 6 m {20ft}** from the tires.

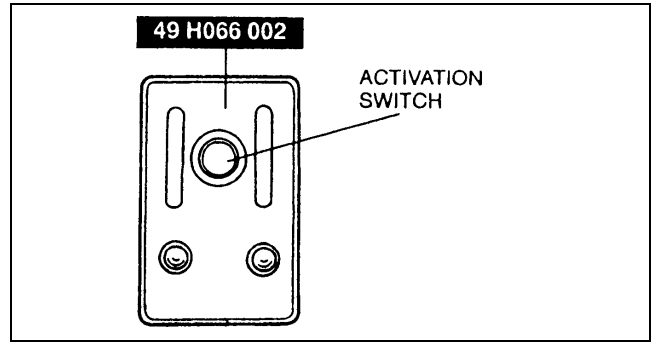


Y3U810WAL

08-10

## AIR BAG SYSTEM

11. Press the activation switch on the **SST** (Deployment tool) to deploy the side air bag module.



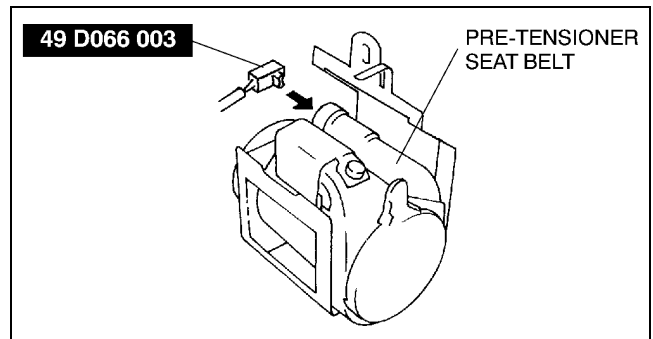
Y3U810WAM

### Pre-tensioner seat belt

1. Remove the pre-tensioner seat belt.
2. Connect the **SST** (49 D066 003) to the pre-tensioner seat belt as shown in the figure.

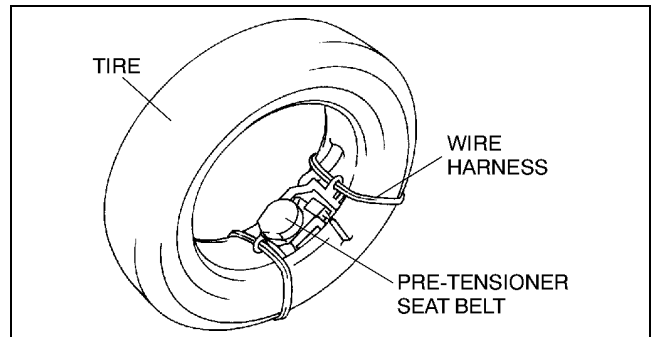
#### Warning

- If the pre-tensioner seat belt is not properly installed to the tire, serious injury may occur when the pre-tensioner part is deployed. When installing the pre-tensioner seat belt to the tire, make sure the pre-tensioner part is inside the tire.



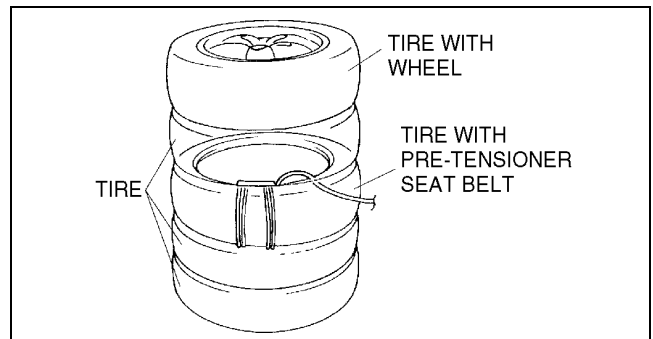
Z3U0810W005

3. With the pre-tensioner part inside the tire, tie the pre-tensioner seat belt to the tire. Wrap the wire harness through the tire and around the pre-tensioner seat belt **at least four times**.



Z3U0810W006

4. Stack the tire with the pre-tensioner seat belt on top of two tires. Stack a tire on top of the three tires. Stack another tire that has a wheel on top of the four tires.

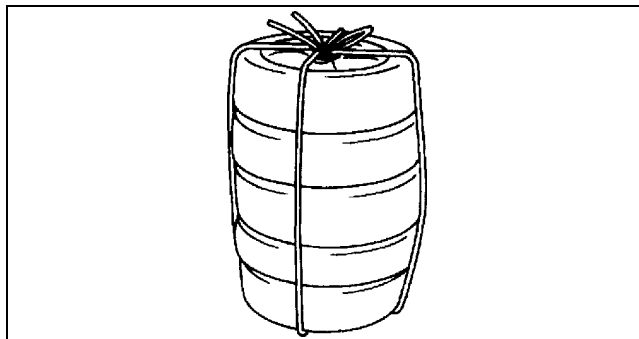


YLE8130W201



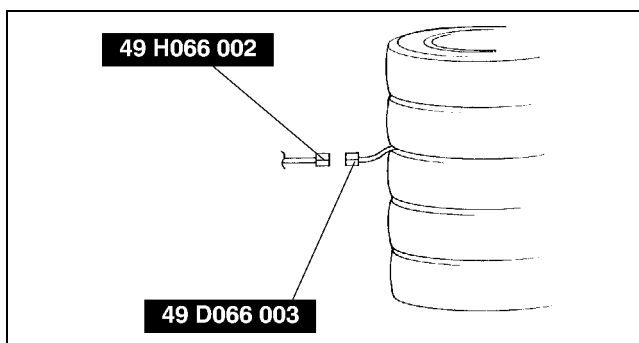
## AIR BAG SYSTEM

5. Tie all tires together with wire.



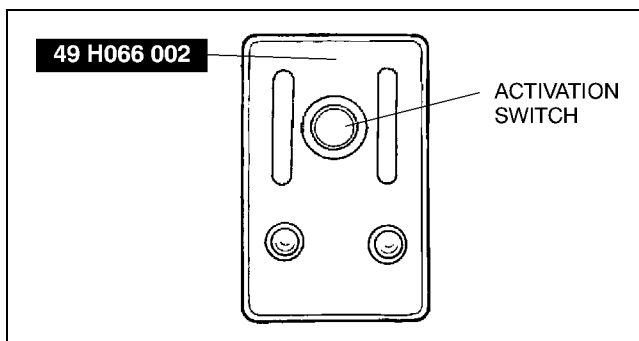
XME8126W008

6. Connect the **SST** (49 H066 002) to the **SST** (49 D066 003).
7. Connect the red clip of the **SST** (49 H066 002) to the positive battery terminal and the black clip to the negative battery terminal.
8. Verify that the red light on the **SST** (49 H066 002) is illuminated.
9. Make sure all persons are standing **at least 6 m {20 ft}** from the vehicle.



XME8126W009

10. Press the activation switch on the **SST** (49 H066 002) to deploy the pre-tensioner seat belt.



XME8126W010

08-10

### AIR BAG MODULE AND PRE-TENSIONER SEAT BELT DISPOSAL PROCEDURES

A3U081057000W03

#### Warning

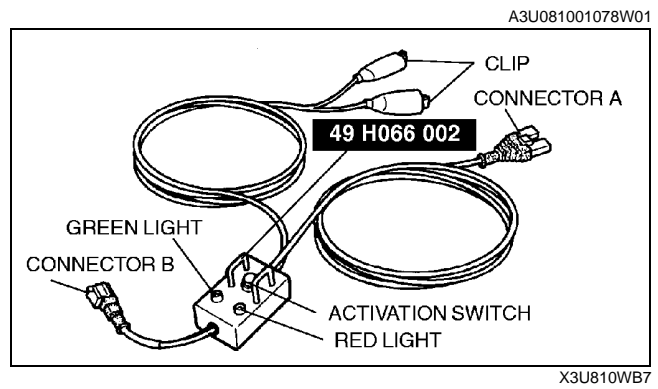
- Before scrapping a vehicle with a live (undeployed) air bag module and pre-tensioner seat belt, deploy the air bag module. Never dispose of a live (undeployed) air bag module and pre-tensioner seat belt.
- The air bag module and pre-tensioner seat belt are very hot immediately after it is deployed. You can get burned. Do not touch the air bag module and pre-tensioner seat belt for at least 15 minutes after deployment.
- Pouring water on the deployed air bag module and pre-tensioner seat belt are dangerous. The water will mix with the residual gases to form a gas that can make breathing difficult. Do not pour water on the deployed air bag module and pre-tensioner seat belt.
- The deployed air bag module and pre-tensioner seat belt may contain deposits of sodium hydroxide, a caustic by product of the gas-generated combustion. If this substance gets into your eyes or on your hands, it can cause irritation and itching. When handling the deployed air bag module and pre-tensioner seat belt, wear gloves and safety glasses.

1. Put on gloves and safety glasses.
2. Put the deployed air bag module or pre-tensioner seat belt in a plastic bag, seal it, and then dispose of it.
3. Wash your hands after removing your gloves.

# AIR BAG SYSTEM

## INSPECTION OF SST (DEPLOYMENT TOOL)

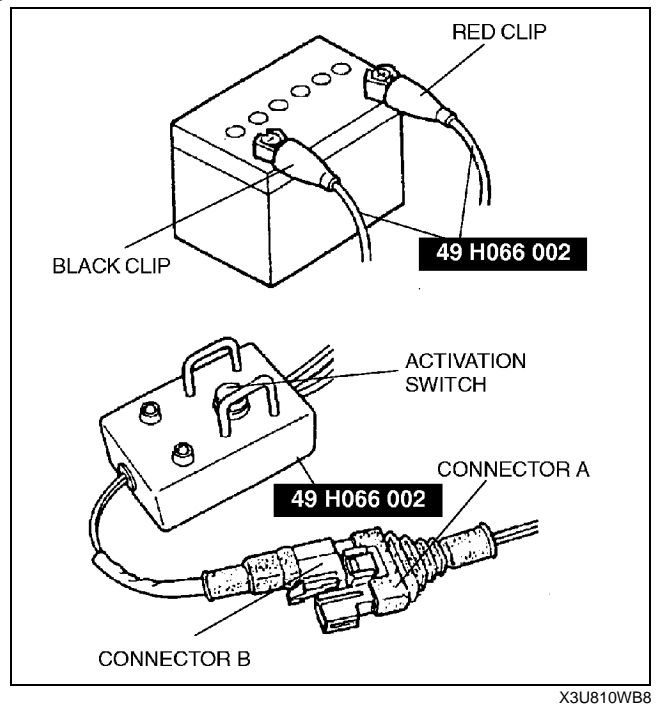
- Use the **SST** (Deployment tool) to deploy a live (undeployed) air bag module before disposing of it.
- Before using the **SST** (Deployment tool), inspect its operation.



## Inspection Procedure

1. Follow the steps below to verify that the **SST** (Deployment tool) is operating correctly.
  - If not as specified, do not use the **SST** (Deployment tool) because it may cause the air bag module to unexpectedly deploy upon connection to the air bag module.

Step	Inspection procedure	Light condition	
		Green	Red
1	Connect red clip to positive battery terminal and black clip to negative battery terminal.	On	Off
2	Connect connectors A and B of <b>SST</b> (Deployment tool).	Off	On
3	Press activation switch.	On	Off



# 08-11 SEAT BELT

**FRONT SEAT BELT**  
 REMOVAL/INSTALLATION ..... 08-11-1

**REAR SEAT BELT**  
 REMOVAL/INSTALLATION ..... 08-11-1  
 4SD ..... 08-11-2  
 5HB ..... 08-11-2

**REAR CENTER SEAT BELT**  
 REMOVAL/INSTALLATION ..... 08-11-3  
 4SD ..... 08-11-3  
 5HB ..... 08-11-3

**FRONT BUCKLE**  
 REMOVAL/INSTALLATION ..... 08-11-3

**REAR BUCKLE**  
 REMOVAL/INSTALLATION ..... 08-11-4

**SEAT BELT INSPECTION** ..... 08-11-4  
 Belt ..... 08-11-4  
 ELR ..... 08-11-4  
 ALR ..... 08-11-4

**BUCKLE SWITCH INSPECTION** ..... 08-11-5

**CHILD RESTRAINT SEAT ANCHOR**  
 REMOVAL/INSTALLATION ..... 08-11-5  
 ISOFIX Anchor ..... 08-11-5  
 Tether Anchor ..... 08-11-5

## FRONT SEAT BELT REMOVAL/INSTALLATION

A3U081157630W01

**Warning**

- Handling the front seat belt (pre-tensioner seat belt) or the side air bag sensor improperly can accidentally deploy the pre-tensioner or the side air bag module, which may seriously injure you. Read SERVICE WARNINGS before handling the front seat belt or working around the B-pillar areas. (See 08-10-3 AIR BAG SYSTEM SERVICE WARNINGS.)

**Note**

- The side air bag sensor is located in the B-pillar.

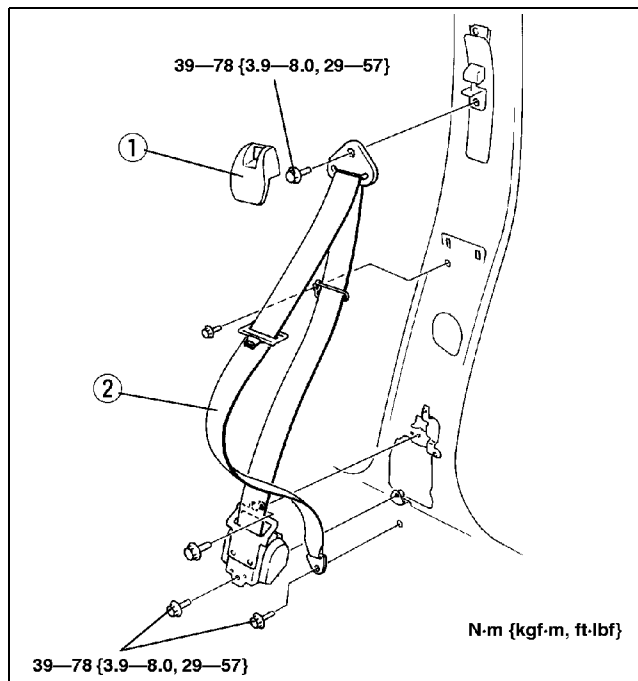
**Caution**

- The ELR has a spring that will unwind if the retractor's cover is removed. The spring cannot be rewound by hand. If this occurs, the ELR will not work properly. Therefore, do not disassemble the retractor.

1. Disconnect the negative battery cable.
2. Remove the B-pillar lower trim. (See 09-17-10 B-PILLAR LOWER TRIM REMOVAL.) (See 09-17-11 B-PILLAR LOWER TRIM INSTALLATION.)
3. Remove in the order indicated in the table.

1	Anchor cover
2	Front seat belt

4. Install in the reverse order of removal.



X3U811WA0

# SEAT BELT

## REAR SEAT BELT REMOVAL/INSTALLATION

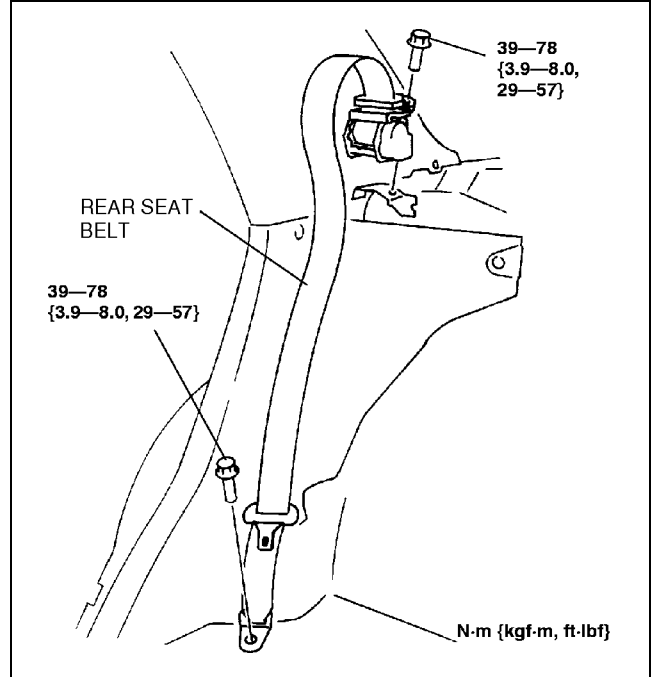
A3U081157730W01

### Caution

- The ELR has a spring that will unwind if the retractor's cover is removed. The spring cannot be rewound by hand. If this occurs, the ELR will not work properly. Therefore, do not disassemble the retractor.

### 4SD

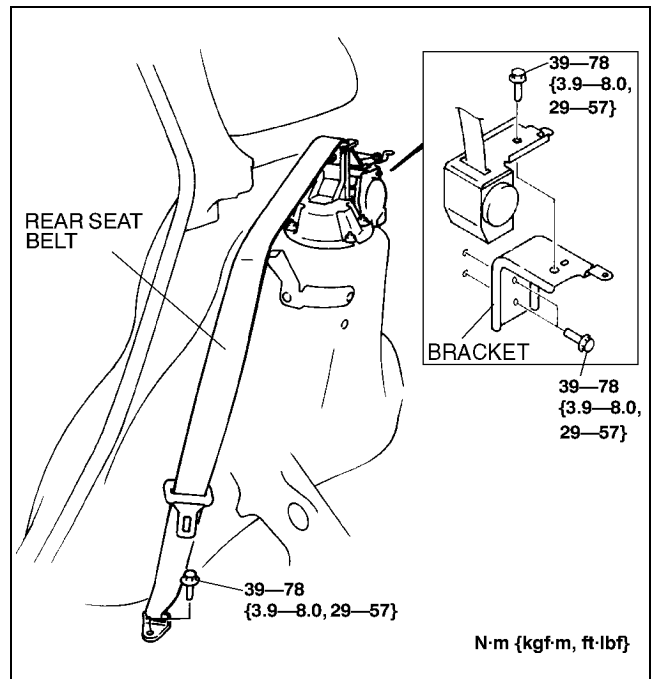
1. Remove the rear package trim.
2. Remove the bolts, then remove the rear seat belt.
3. Install in the reverse order of removal.



Z3U0811W004

### 5HB

1. Remove the trunk side trim.
2. Remove the bolts, then remove the rear seat belt.
3. Install in the reverse order of removal.



A3U0811W001

# SEAT BELT

## REAR CENTER SEAT BELT REMOVAL/INSTALLATION

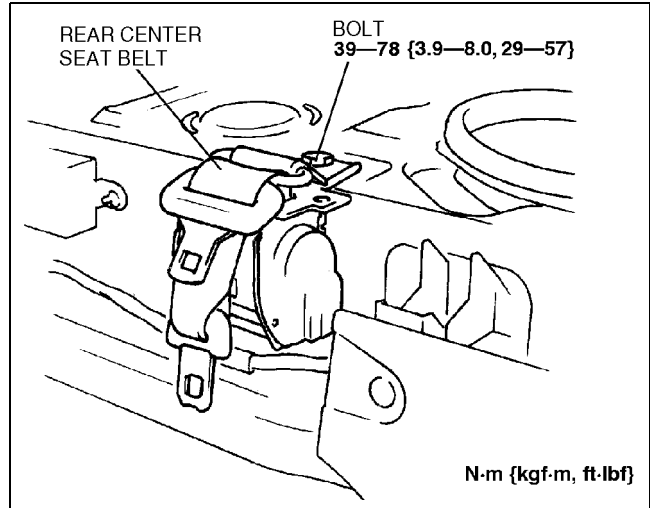
A3U081157730W02

### Caution

- The ELR has a spring that will unwind if the retractor's cover is removed. The spring cannot be rewound by hand. If this occurs, the ELR will not work properly. Therefore, do not disassemble the retractor.

### 4SD

1. Remove the rear package trim.
2. Remove the bolt, then remove the rear center seat belt.
3. Install in the reverse order of removal.

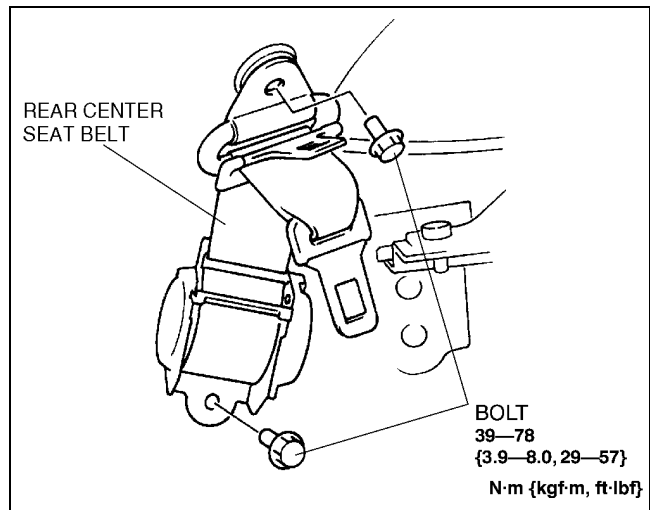


Z3U0811W002

08-11

### 5HB

1. Remove the trunk side trim.
2. Remove the bolts, then remove the rear center seat belt.
3. Install in the reverse order of removal.



A3U0811W002

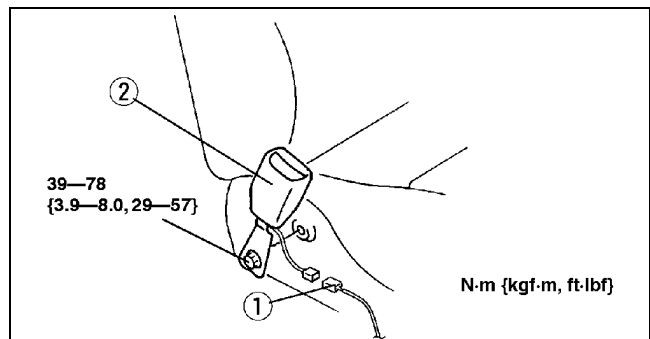
A3U081157620W01

## FRONT BUCKLE REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove in the order indicated in the table.

1	Connector
2	Front buckle

3. Install in the reverse order of removal.



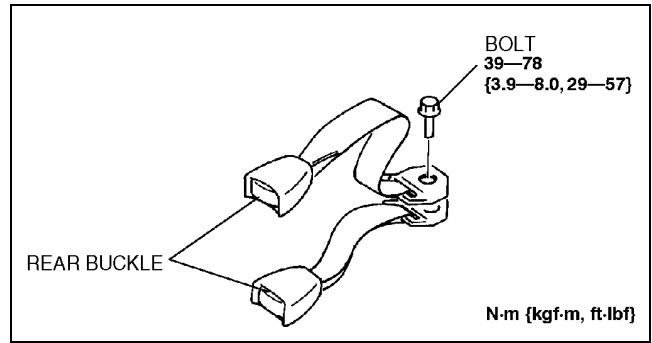
X3U811WA3

# SEAT BELT

## REAR BUCKLE REMOVAL/INSTALLATION

A3U081157720W01

1. For 4SD, remove the rear seat cushion. For 5HB, lift up the rear seat cushion.
2. Remove the bolt, then remove the rear buckle.
3. Install in the reverse order of removal.



Z3U0811W001

## SEAT BELT INSPECTION

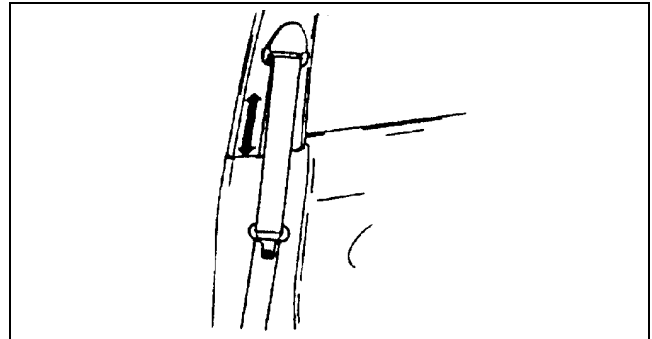
A3U081157630W02

### Belt

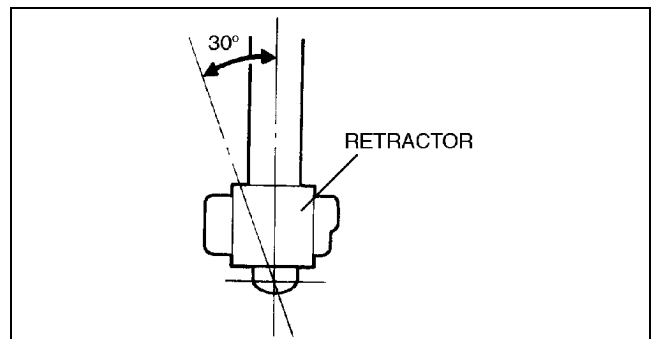
1. Confirm that the seat belt is installed correctly.
2. Inspect the seat belt for damage and deformation of metal parts.
  - If any damage is found, replace as necessary.
3. Replace the seat belt if there is any faulty area.

### ELR

1. Verify that the belt can be pulled out smoothly, and that it moves smoothly when wound.
  - If not as specified, replace the seat belt.
2. Verify that the retractor locks when the belt is pulled quickly.
  - If not as specified, replace the seat belt.
3. Remove the retractor. (See 08-11-1 FRONT SEAT BELT REMOVAL/INSTALLATION.) (See 08-11-2 REAR SEAT BELT REMOVAL/INSTALLATION.) (See 08-11-3 REAR CENTER SEAT BELT REMOVAL/INSTALLATION.)
4. Hold the retractor as it would be installed.
5. Slowly incline the retractor while pulling out the belt.
6. Verify that the retractor lks at approximately 30° inclination.
  - If not as specified, replace the seat belt.



X3U811WA5



X3U811WA6

### ALR

1. Pull the belt out fully and the lock mode changes from ELR to ALR.
2. Verify that retractor makes a clicking sound as the belt slowly retracts.
  - If no sound is heard, the lock mode has not changed to ALR. If necessary, repeat the above Step 1.
  - If not as specified, replace the seat belt.
3. Verify that the belt locks when pulled.
  - If not as specified, replace the seat belt.
4. Verify that the lock mode changes to ELR when the belt fully retracts.
  - If not as specified, replace the seat belt.

# SEAT BELT

## BUCKLE SWITCH INSPECTION

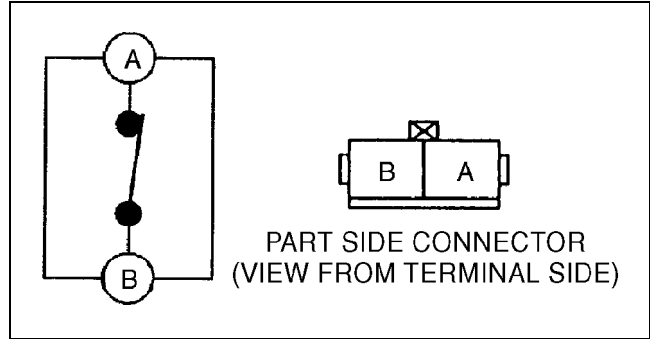
A3U081157620W02

1. Disconnect the negative battery cable.
2. Disconnect the buckle switch connector.
3. Inspect for continuity between the buckle switch terminals using an ohmmeter.
  - If not as specified, replace the front buckle.

○—○ : Continuity

Seat belt	Terminal	
	A	B
Fastened		
Unfastened	○—○	○—○

X3U811WA7



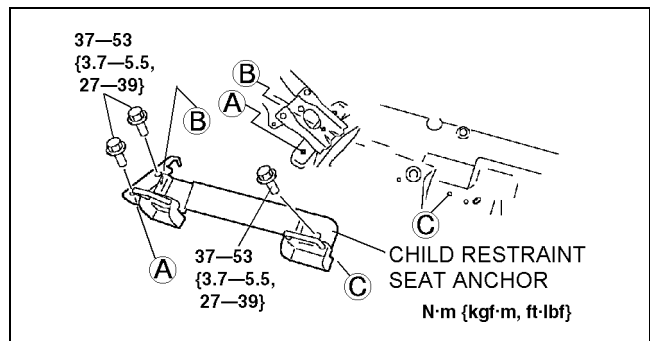
Y3U811WA0

## CHILD RESTRAINT SEAT ANCHOR REMOVAL/INSTALLATION

A3U081157770W01

### ISOFIX Anchor

1. Fold down the rear seat back.
2. Remove the tire house trim.
3. Remove the child restraint seat anchor.
4. Install in the reverse order of removal.

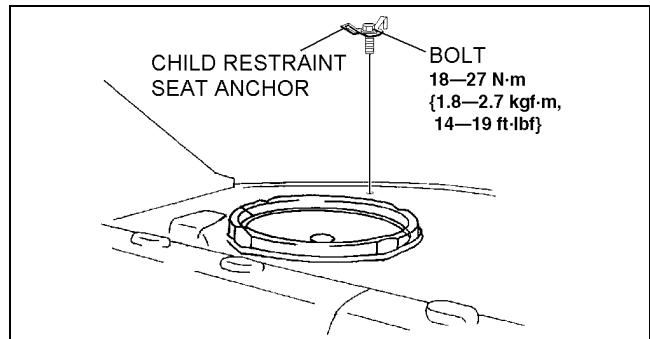


Z3U0811W003

### Tether Anchor

#### 4SD

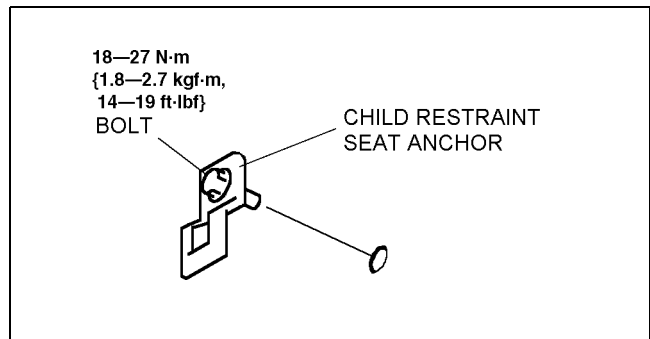
1. Remove the rear package trim.
2. Remove the bolt, then child restraint seat anchor.
3. Install in the reverse order of removal.



A3U0811W004

#### 5HB

1. Remove the trunk end trim.
2. Remove the bolt, then child restraint seat anchor.
3. Install in the reverse order of removal.




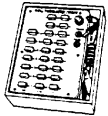
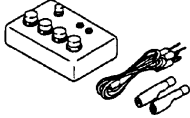
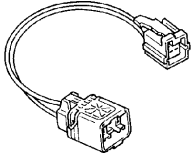

A3U0811W005

**08-60 SERVICE TOOLS**

RESTRAINTS SST ..... 08-60-1

**RESTRAINTS SST**

A3U086001045W01

<p>49 H066 002 Deployment tool</p> 	<p>49 0839 285 Fuel and Thermometer checker (Old)</p> 	<p>49 N088 0A0 Fuel and Thermometer checker (New)</p> 
<p>49 D066 002 Adapter harness</p> 	<p>49 D066 003 Adapter harness</p> 	<p>—</p>