

## SRS AIRBAG SYSTEM

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AB

## AB-2

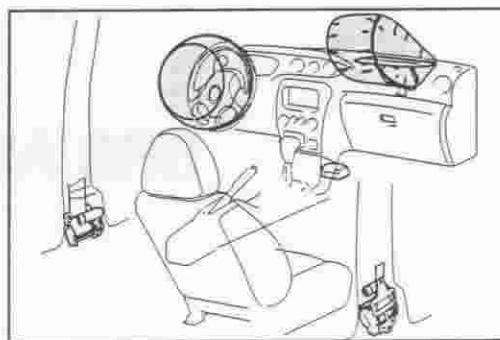
### SRS AIRBAG SYSTEM

#### IMPORTANT SAFETY NOTICE

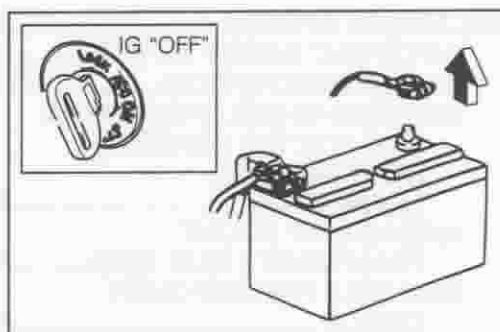
#### SRS AIRBAG SYSTEM

##### WARNING:

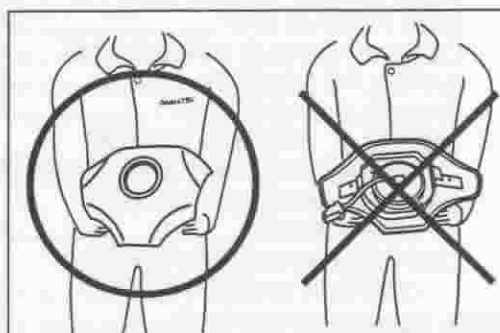
- Make certain to perform operations of the airbag system according to the correct procedure and method. Failure to observe this notice may cause the airbag system to operate unexpectedly during the service operation, resulting in serious accidents. Furthermore, if wrong repairs should be performed, there are the possibilities that the airbag system fail to operate when required.
- Before servicing the airbag components or the seat belt pretensioner device, perform the following procedures:
  - (1) Check the status of the airbag warning lamp, or confirm whether or not any abnormality code is present, using the DS-21.
  - (2) Read the diagnosis codes and put it on record.
  - (3) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then, wait for at least 60 seconds to prevent the airbag from the deployment.
- It should be noted that, when the negative (-) terminal of the battery is detached, the memory of the ECU control of the other system will be erased at the same time.
- Never bring your face, arms and body to the front of the airbag unit during the removal.
- Be sure to place the removed airbag pad assembly with the pad surface facing upward. The assembly with the pad surface facing downward is potentially hazardous. Failure to observe this warning may cause unexpected deployment of the airbag, resulting in scattered pad assembly.
- Furthermore, store the pad assembly and seat belt pretensioner device at a low place close to the ground level where no heat source (85°C or more) exists in close proximity, and store at a place where is not exposed to direct sun rays.
- If the airbag components or seat belt pretensioner device are dropped, be sure to dispose of the unit according to the disposal procedure. Be sure to mount a new unit to the vehicle.



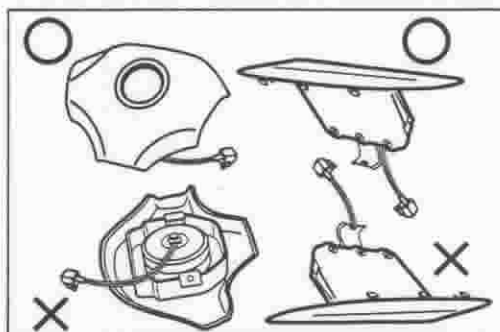
YAB00001



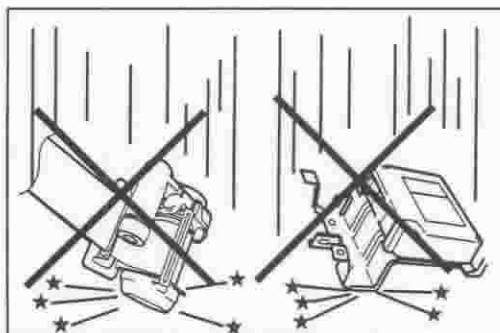
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YAB00003

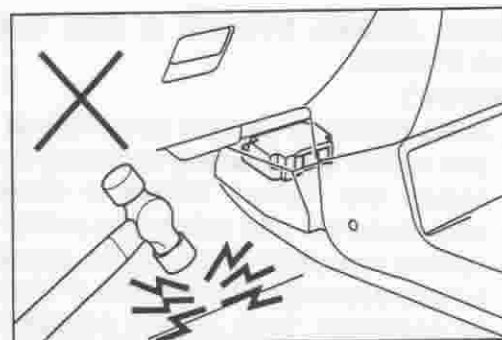


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YAB00005

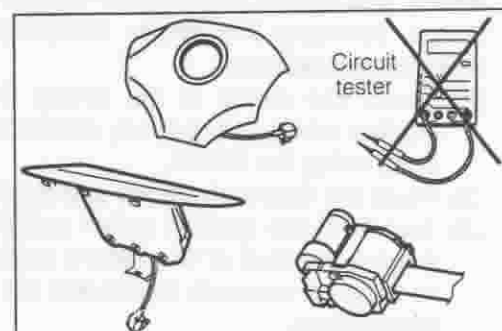
- During installation or replacement, do not bump the area near the airbag ECU, using an impact wrench, a hammer or the like. It may cause the sensor in the ECU to operate.



YAB00006

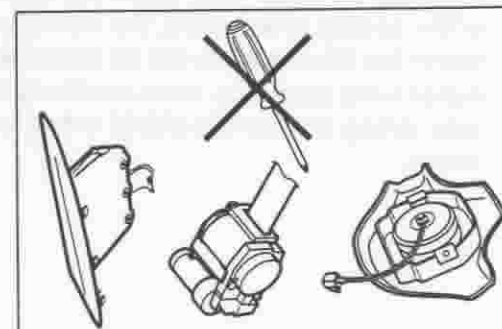
- To prevent the airbag unit or the pretensioner from deploying, do not measure the resistance of the inflator squib easily.

The squib of the airbag or seat belt pretensioner consists of a filament of about 2 ohms. Therefore, there is the possibility that a current which is big enough to cause deployment flows when ohmmeter is connected.



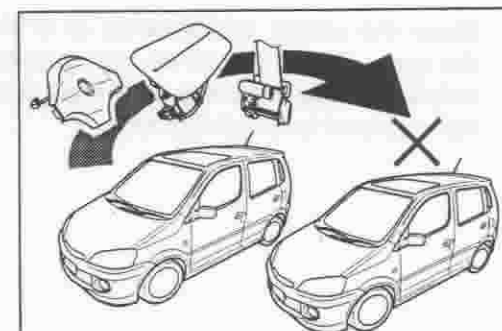
YAB00007

- Do not overhaul the airbag components and the seat belt pretensioner device. There are no supply parts.



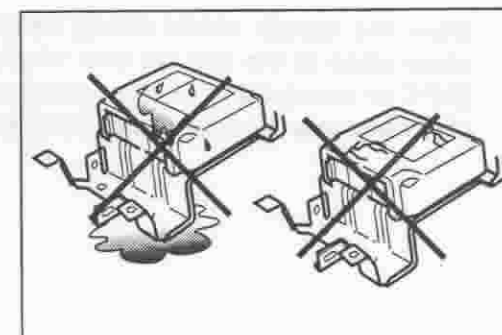
YAB00008

- Do not install used airbag components and seat belt pretensioner device from another car. When repairing, use only new components.
- Do not replace the original steering wheel with a steering wheel of any other design, since it will make impossible proper installation of the airbag.



YAB00009

- Also do not use any airbag assembly, seat belt pretensioner device or airbag ECU, which was subjected to water damage or shows signs of being improperly handled, such as dents, cracks and deformation.
- Before scrapping any airbag, seat belt pretensioner device or the vehicle which contains them, they have to be deployed.



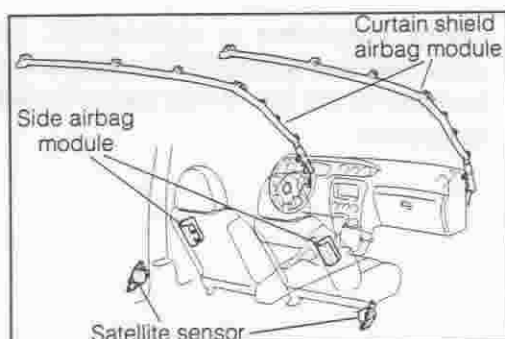
YAB00010

## AB-4

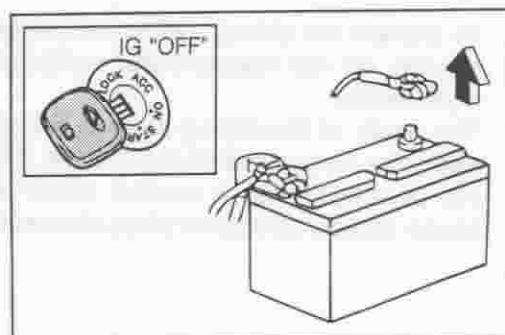
### SRS SIDE AIRBAG SYSTEM & SRS CURTAIN SHIELD AIRBAG SYSTEM

#### WARNING:

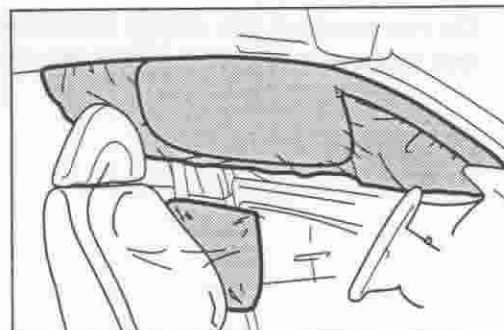
- Make certain to perform operations of the side airbag and curtain shield airbag according to the correct procedure and method. Failure to observe this caution may cause the side airbag and curtain shield airbag to operate unexpectedly during the operation, resulting in serious accidents. Furthermore, if wrong repairs should be performed, there are the possibilities that the side airbag and curtain shield fail to operate when required.
- Before servicing the airbag components, perform the following procedures:
  - (1) Check the status of the airbag warning lamp, or confirm whether or not any abnormality code is present, using the DS-21.
  - (2) Read the diagnosis codes and put it on record.
  - (3) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then, wait for at least 60 seconds to prevent the airbag from the deployment.
- It should be noted that, when the negative (-) terminal of the battery is detached, the memory of the ECU control of the other system will be erased at the same time.
- Never bring your face, arms and body to the front of the side airbag and curtain shield airbag unit during the removal.
- Store the airbag components at a low place close to the ground level where no heat source (85°C or more) exists in close proximity, and store at a place where is not exposed to direct sun rays.
- Store the curtain shield airbag components at a low place close to the ground level where no heat source (85°C or more) exists in close proximity, and store at a place where is not exposed to direct sun rays.



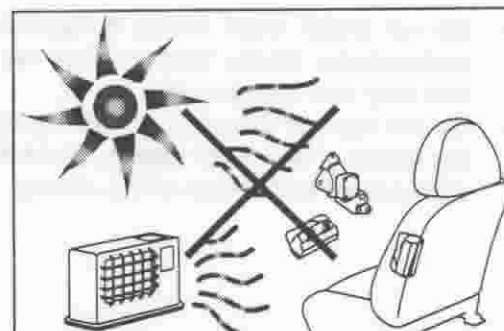
YAB00011



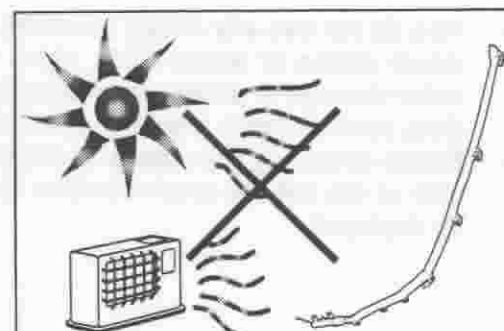
YAB00012



YAB00013

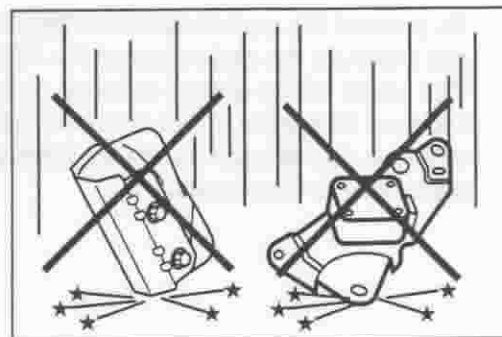


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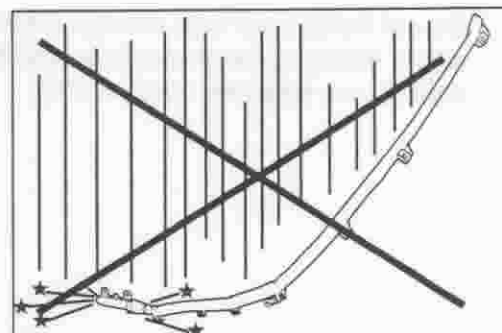
YAB00015

- If the side airbag components are dropped, be sure to dispose of the unit according to the disposal procedure. Be sure not to mount the dropped unit to the vehicle.



YAB00015

- If the curtain shield airbag components are dropped, be sure to dispose of the unit according to the disposal procedure. Be sure not to mount the dropped unit to the vehicle.

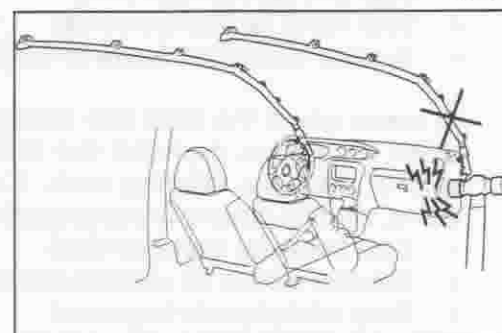


YAB00017

- During installation or replacement, do not bump the area near the satellite sensor, using an impact wrench, a hammer or the like. It may cause the sensor in the ECU to operate.
- Whenever the ignition switch is on, or has been turned off for only less than 60 seconds, be carefully not to bump the satellite sensor, for the side airbag and curtain shield airbag could accidentally deploy and cause damage or injuries.

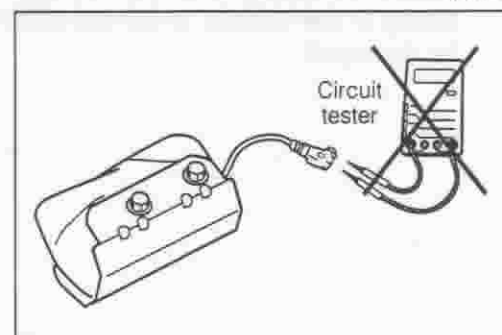


YAB00018



YAB00019

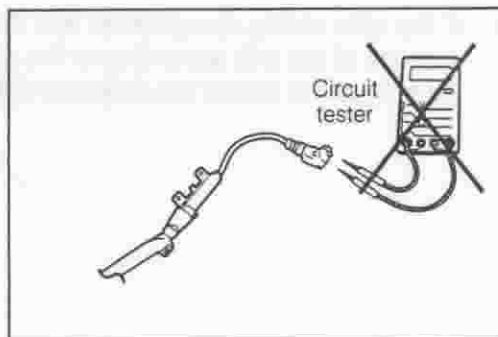
- To prevent the side airbag from deploying, do not measure the resistance of the inflator squib easily. The squib of the airbag consists of a filament of about 2 ohms. Therefore, there is the possibility that a current which is big enough to cause deployment flows when ohmmeter is connected.



YAB00020

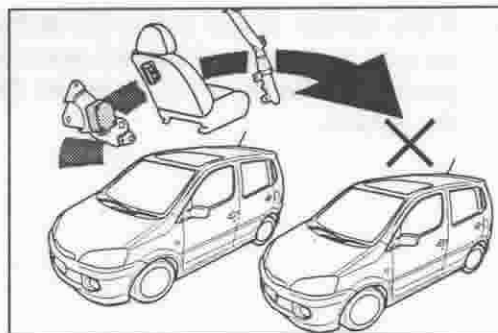
## AB-6

- To prevent the curtain shield airbag from deploying, do not measure the resistance of the inflator squib easily. The squib of the airbag consists of a filament of about 2 ohms. Therefore, there is the possibility that a current which is big enough to cause deployment flows when ohmmeter is connected.



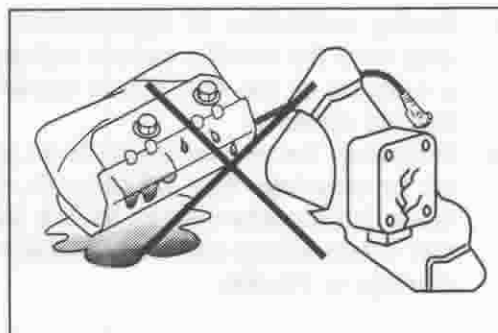
YAB00021

- Do not install used side airbag components and curtain shield airbag components from another car. When repairing, use only new components.



YAB00022

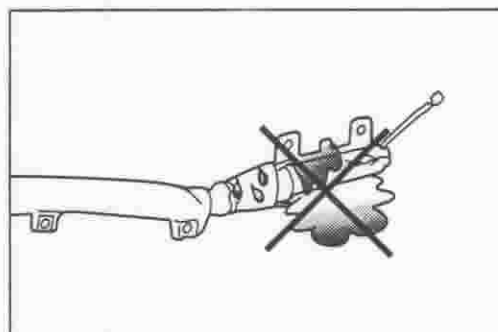
- Do not use any side airbag and curtain shield airbag assembly, or satellite sensor, which was subjected to water damage or shows signs of being improperly handled, such as dents, cracks and deformation.
- In cases where the SRS side airbag and SRS curtain shield airbag has deployed to accidents, etc., be sure to replace the following parts with new ones.
  - Side airbag unit (at deployed side)
  - Curtain shield airbag unit (at deployed side)
  - Pillar garnish (at deployed side) and roof head lining
  - Seat pad (at deployed side)
  - Seat cover (at deployed side)
  - Satellite sensor (at deployed side)



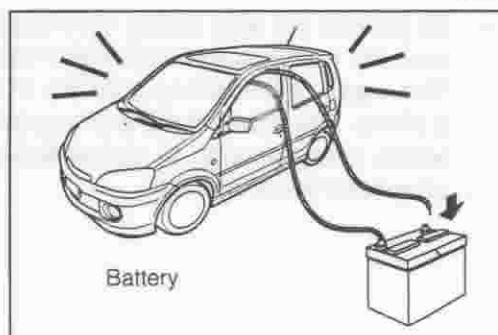
YAB00023

In cases where the SRS side airbag and SRS curtain shield airbag has deployed due to accidents, etc., be sure to check the following parts. If any abnormality is found, perform repairs or replacement.

- Seat frame (at deployed side)
- Satellite sensor (at undeployed side)
- Body related parts in general
- Before scrapping any side airbag and curtain shield airbag or the vehicle which contains them, they have to be deployed.

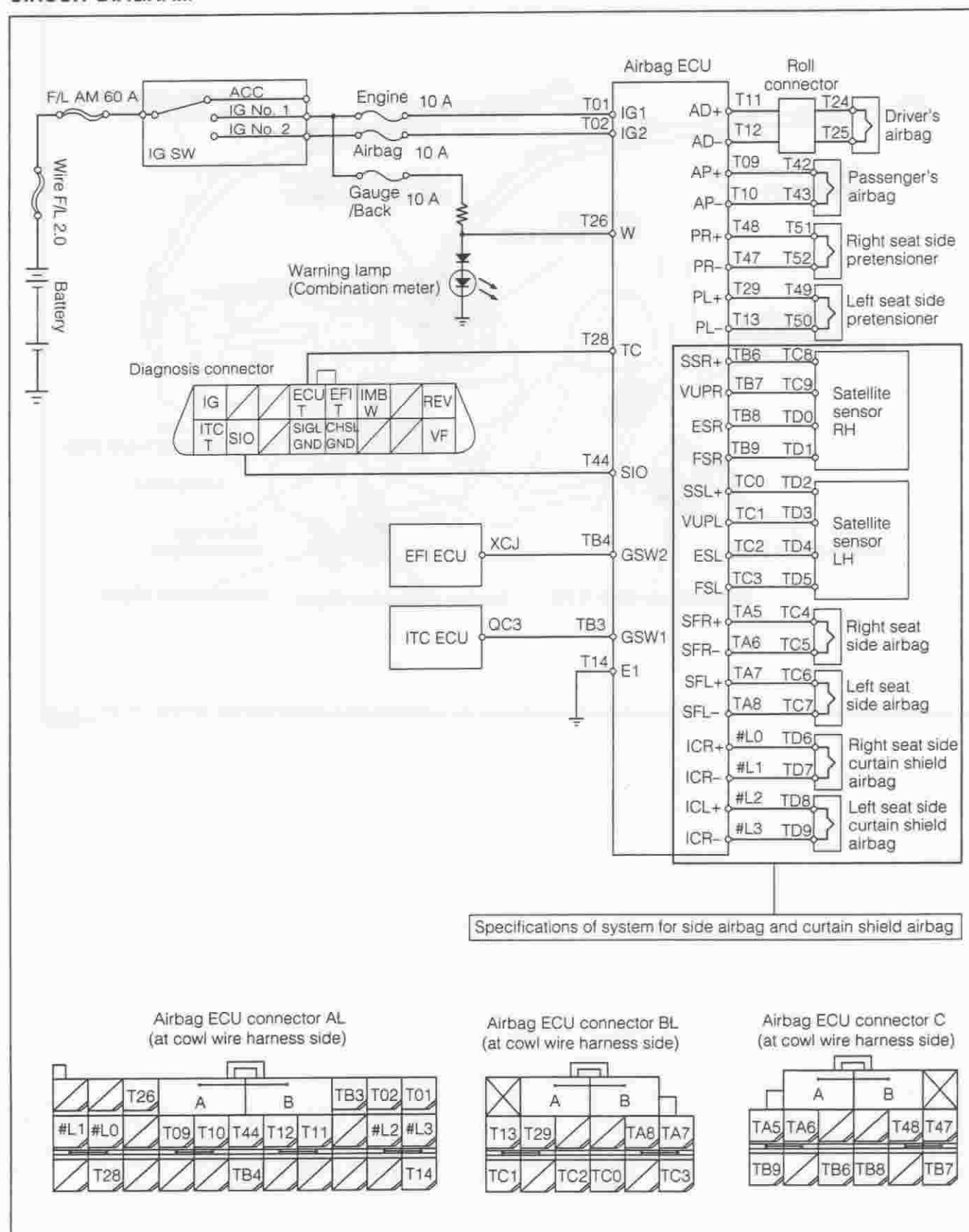


YAB00024



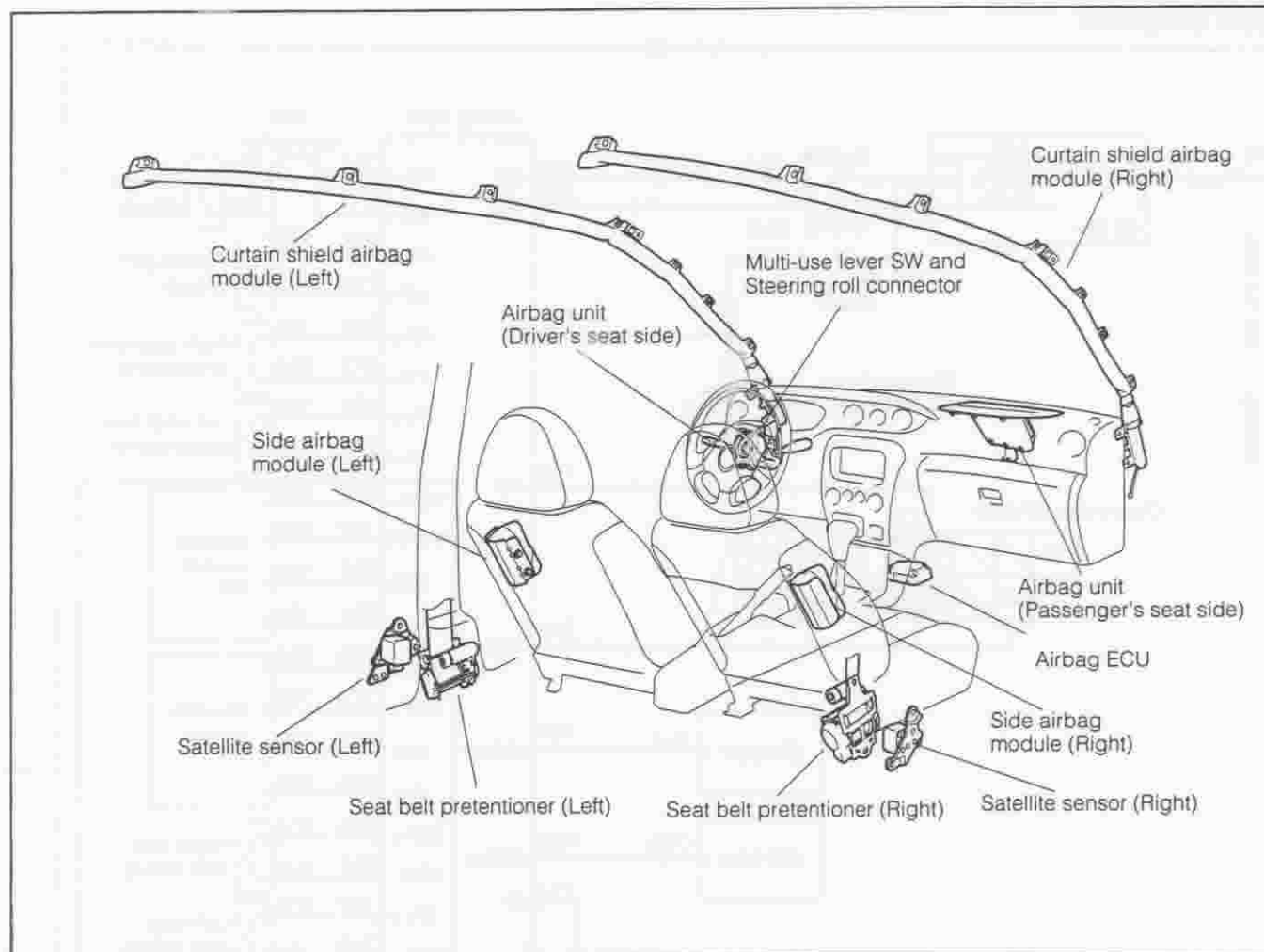
YAB00025

# SYSTEM DESCRIPTION CIRCUIT DIAGRAM



## AB-8

### COMPONENTS LAYOUT

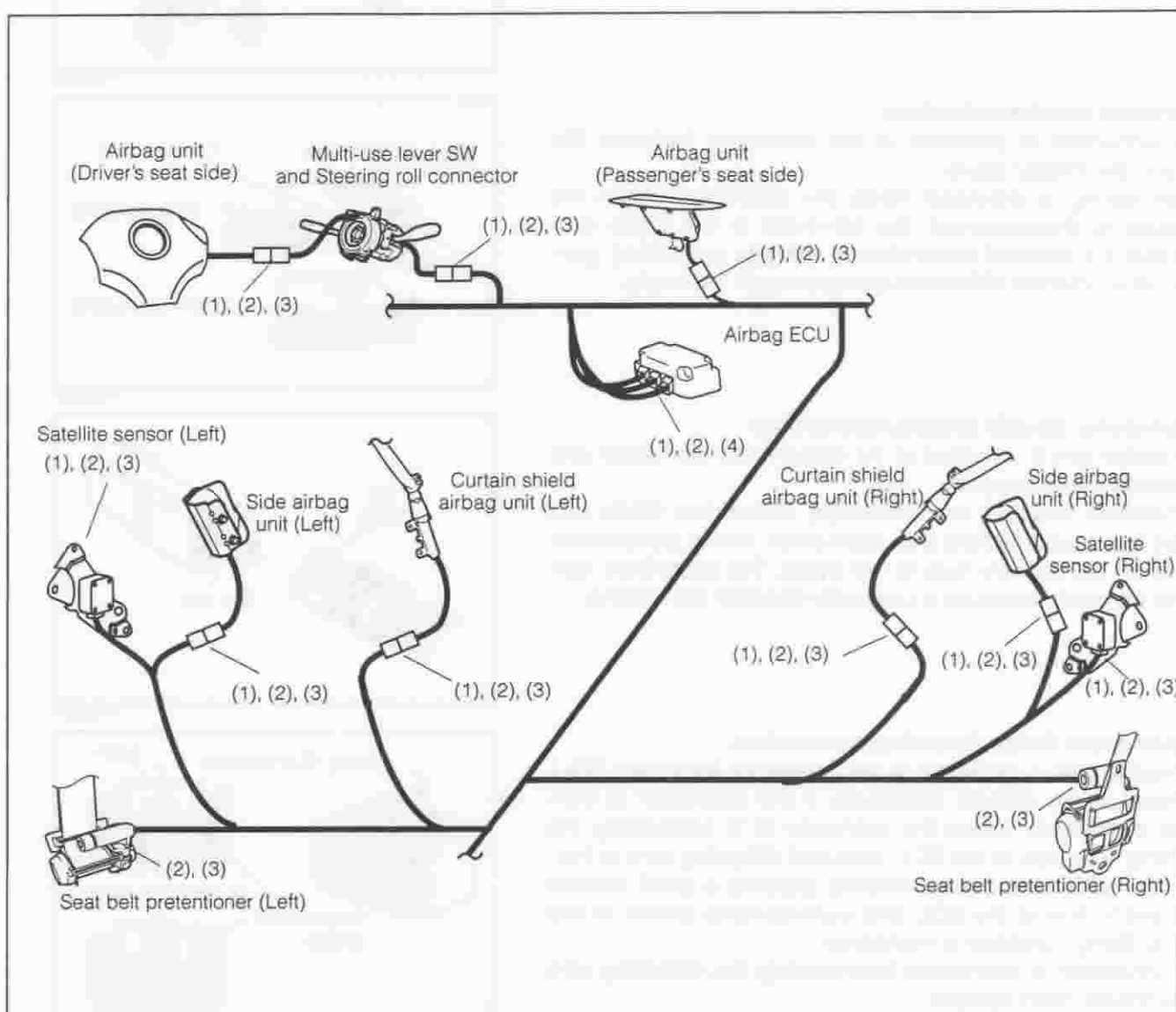


YAB00027

# WIRING HARNESS CONNECTOR OF AIRBAG SYSTEM

All wire harnesses and connectors related to the side airbag system are colored yellow uniformly. The following sections have connectors with special functions.

- (1) Terminal double locking mechanism
- (2) Terminal short mechanism
- (3) Connector double locking mechanism
- (4) Incomplete fitting detecting mechanism

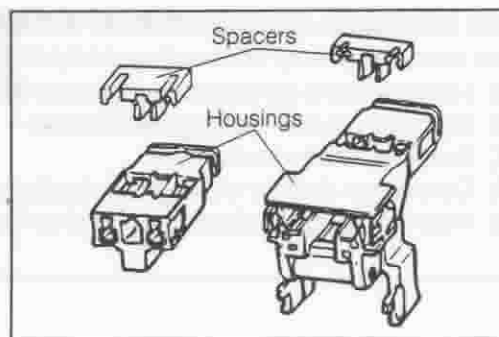


YAB00028

## AB-10

### (1) Terminal double locking mechanism

This mechanism is provided with all connectors of this system. The connector is of a two-piece construction consisting of a terminal housing and a spacer. The terminal holding is double-locked by the lance in the housing (primary one) and the spacer (secondary one).

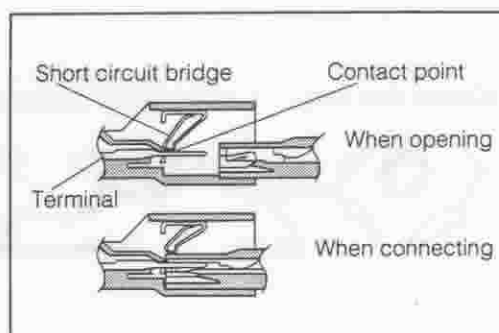


YAB00029

### (2) Terminal short mechanism

This mechanism is provided at the connector between the ECU and the inflator squib.

A short spring is provided inside the connector. When the connector is disconnected, the terminals in the squib side connector are shorted automatically, thereby preventing generation of a potential difference between both terminals.

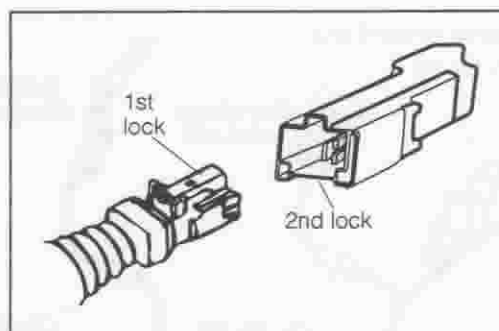


YAB00030

### (3) Connector double locking mechanism

This mechanism is provided at the steering roll connector and connectors to each squib.

For improved reliability of connection, connectors (male and female) are double locked with each other. It is so constructed that, when the primary lock is not made, the secondary lock can not be made because a protrusion hinders the locking.

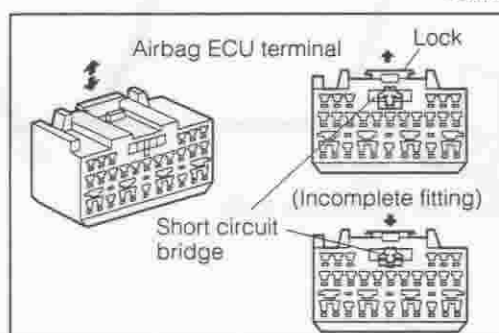


YAB00031

### (4) Incomplete fitting detecting mechanism

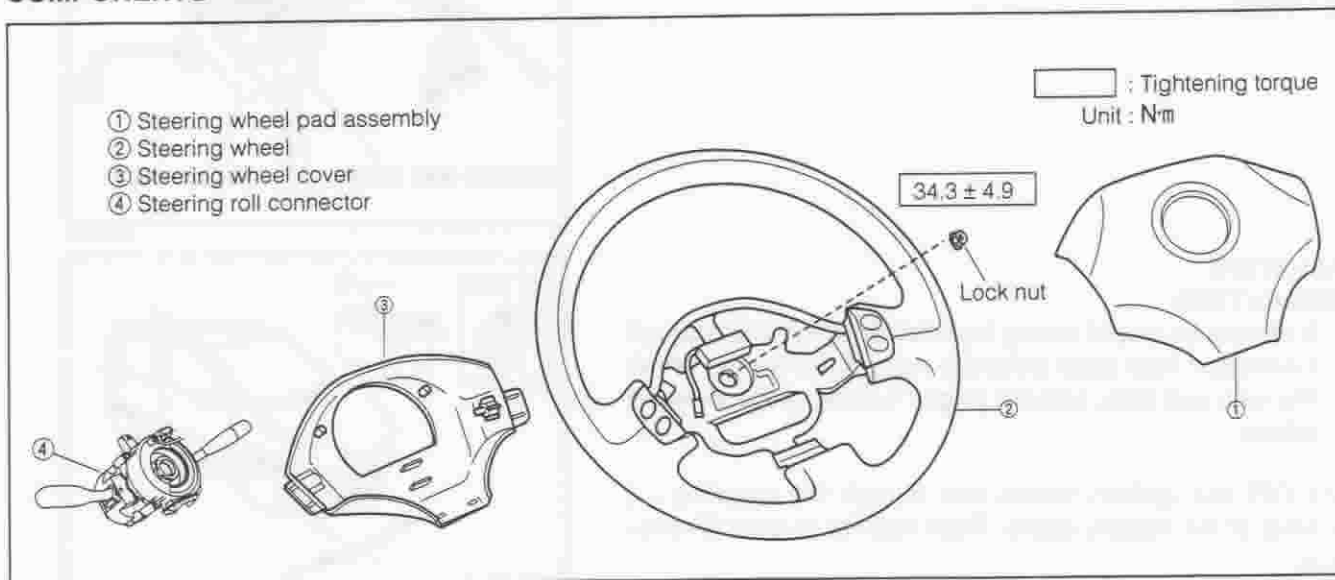
This mechanism is provided at the connector for airbag ECU. This mechanism detects electrically if the connector is connected completely. When the connector is fit completely, the detecting terminals at the ECU side and detecting pins at harness connector side are connected, allowing a small amount of current to flow to the ECU and warning lamp circuit. In this way, the fitting condition is monitored.

If the connector is connected incompletely, the detecting pins and terminals don't contact.



YAB00032

## STEERING WHEEL PAD (AIRBAG UNIT FOR THE DRIVER) & STEERING ROLL CONNECTOR COMPONENTS



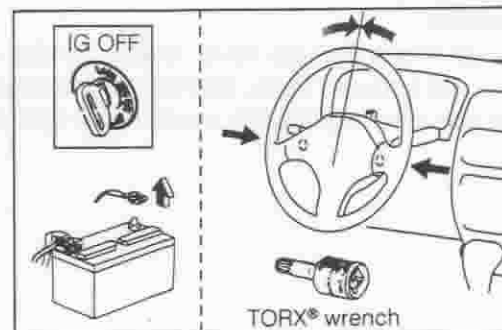
YAB00033

### REMOVAL

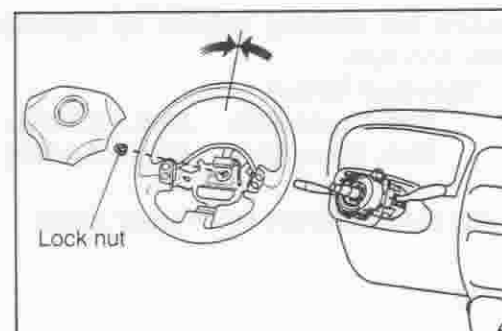
#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

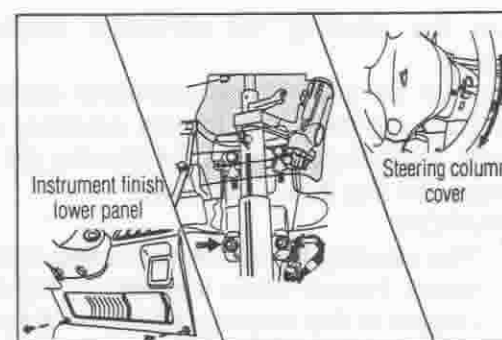
- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Set the steering wheel to a straight-ahead position.
- Remove the attaching bolts (TORX®) at the right and left sides of the steering wheel cover side.
- Separate the pad assembly and steering wheel.
- Disconnect the connector for the airbag and connector for the horn provided at the reverse side of the pad assembly.
- After each connector is disconnected, remove the pad assembly from the steering wheel.
- Check the steering wheel to a straight-ahead position.
- Remove the lock nut of the steering wheel.
- Remove the steering wheel.
- Remove the instrument finish lower panel and lower the steering column by temporarily loosening the attaching bolts and nuts.
- Remove the steering column cover by the removing attaching screws.



YAB00034



YAB00035



YAB00036

## AB-12

12. Disconnect the connectors and detach the wiring harness from the clamp.
13. Remove the multi-use lever switch by removing the attaching screws.

### INSTALLATION

#### PRECAUTION:

- It should be noted wrong installation of the steering roll connector may pose potential hazard, for it may break the wire and also, prevent proper turning of the steering wheel.

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Ensure that the front wheels are set to the straight-ahead position.
3. Install the multi-use lever switch to the steering column with the screws. Then, connect the connectors.
4. Set the steering column cover to the steering column.

5. Secure the steering column by tightening the attaching bolts and nuts.

#### Specified Torque:

Nut, Lower Side:  $22.5 \pm 4.9$  N·m

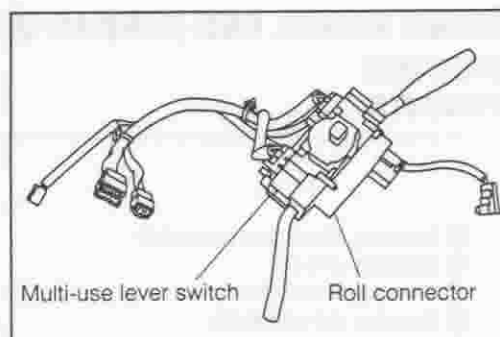
Bolt, Upper Side:  $21.1 \pm 3.4$  N·m

6. Install the instrument finish lower panel.

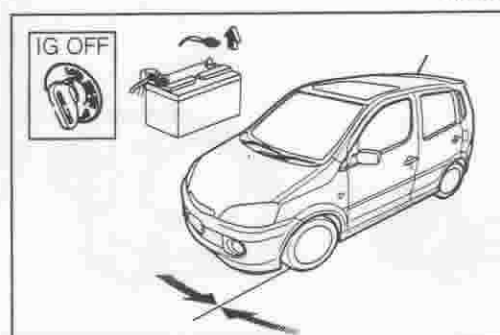
7. Turn the steering roll connector clockwise, until it is locked.
8. Back off the steering roll connector about 3.0 turns counterclockwise from the locked position. Align the center mark. Temporarily secure the steering roll connector, using a tape, so that it may not move.

#### CAUTION:

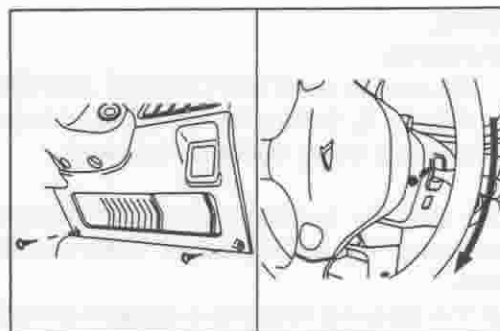
- The steering roll connector makes six turns at the maximum. Hence, when the steering roll connector is connected to the steering wheel, be sure to set the steering roll connector to the midpoint of the rotation.



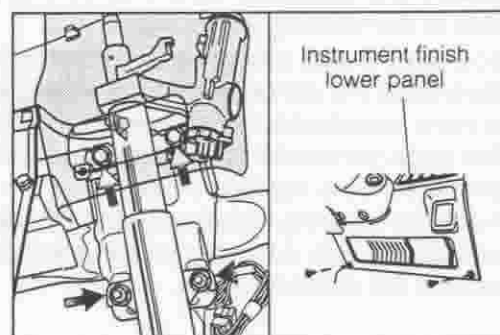
YAB00037



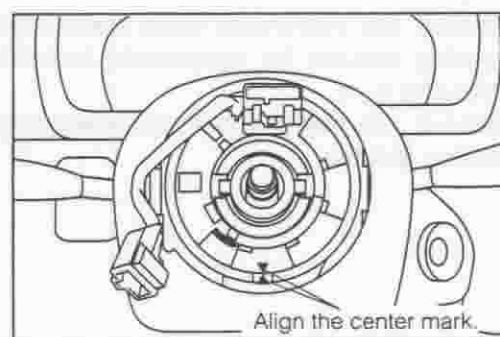
YAB00038



YAB00039



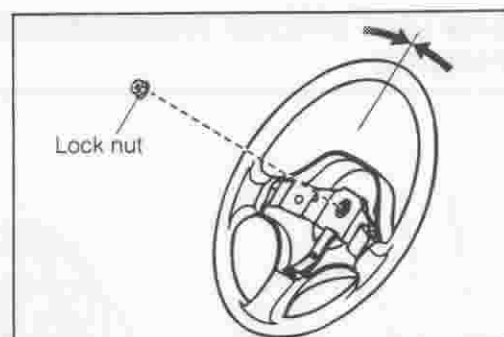
YAB00040



YAB00041

9. Install the steering wheel assembly to the steering shaft and tighten the lock nut.

Specified Torque:  $34.3 \pm 4.9 \text{ N}\cdot\text{m}$



YAB00042

10. Install the pad assembly

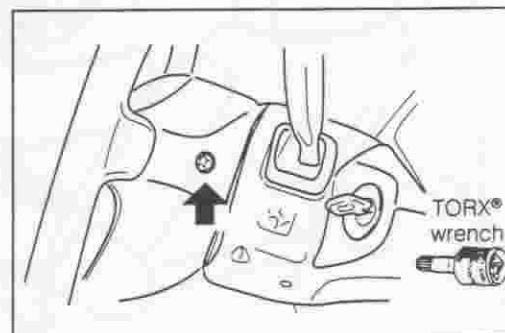
(1) Connect the connector for the airbag and connector for the horn.

(2) Secure the pad assembly to the steering wheel assembly with the TORX® bolt.

Specified Torque:  $7.4 \pm 2.2 \text{ N}\cdot\text{m}$

**CAUTION:**

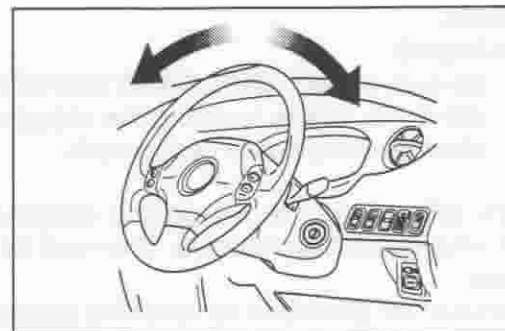
- Make sure that the yellow connector of the airbag circuit is connected securely. Furthermore, make certain to engage the double lock of the connector and set the connector to the connector holder, while sliding it. Utmost care must be exercised during the assembling so that the harness may not interfere with the flange of the steering or ride over it.



YAB00043

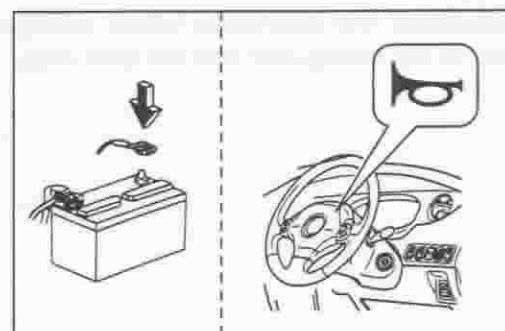
**CHECK AFTER INSTALLATION**

1. Turn the steering wheel to the right and left sides respectively, as far as it will go. Ensure that no malfunction exists.



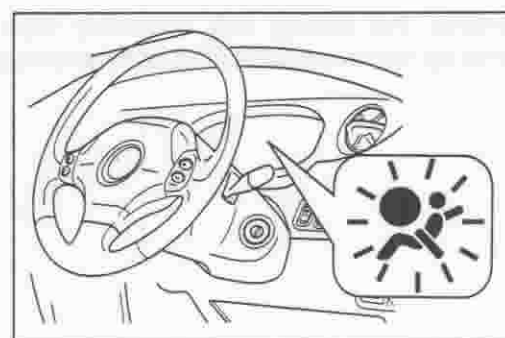
YAB00044

2. Connect the negative (-) terminal of the battery cable to the battery terminal.  
3. Ensure that the horn will sound by pushing the horn button.



YAB00045

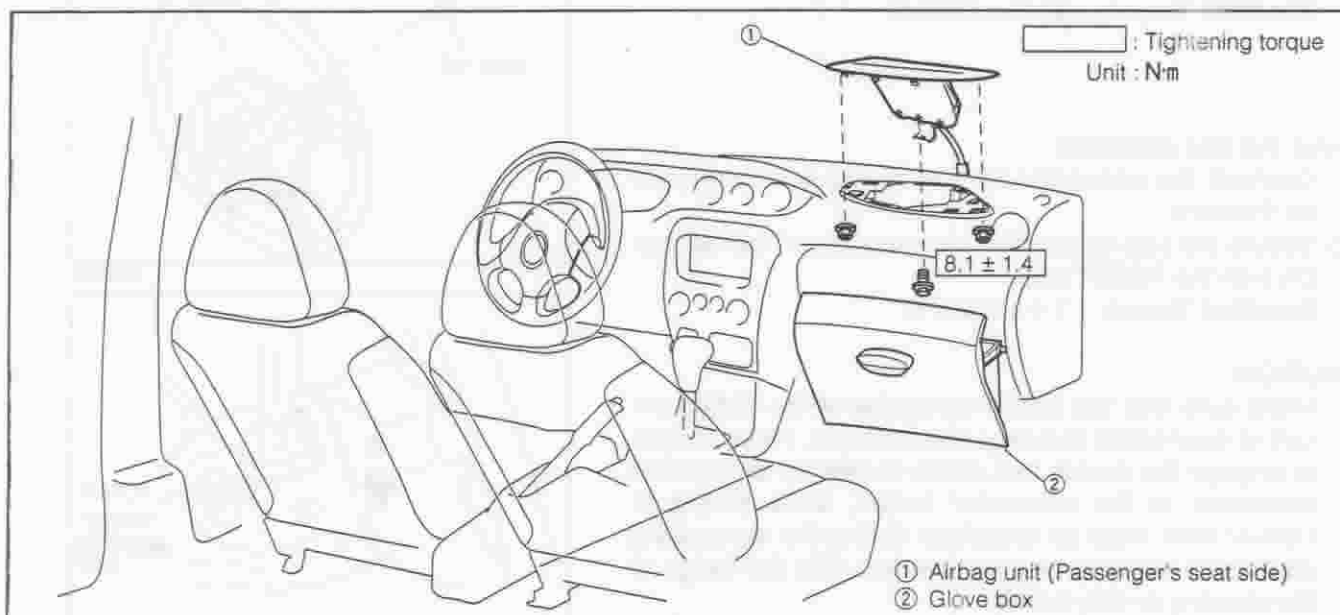
4. Turn ON the ignition switch. Ensure that the airbag warning lamp illuminates for six seconds.



YAB00046

## AB-14

### AIRBAG UNIT (FRONT PASSENGER'S SEAT SIDE) COMPONENTS



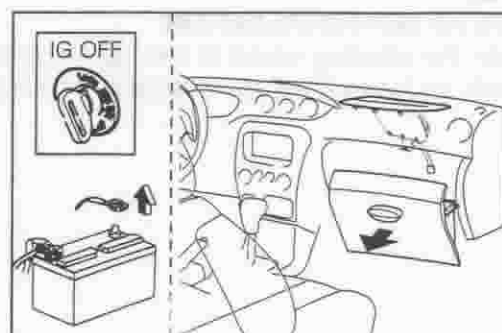
YAB00047

### REMOVAL

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Remove the glove box by removing attaching clip.
- Disconnect the connector which connects the wire harness of the airbag unit and the cowl wire.

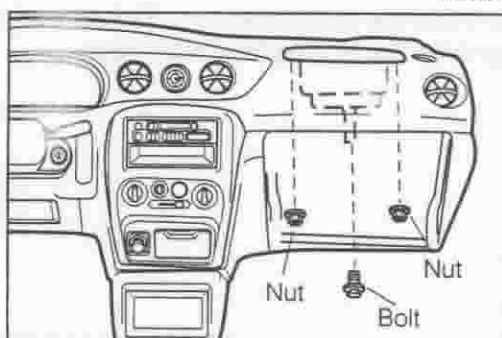


YAB00048



YAB00049

- Remove the airbag unit assembly from the instrument panel by removing attaching bolts and nuts.



YAB00050

## INSTALLATION

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

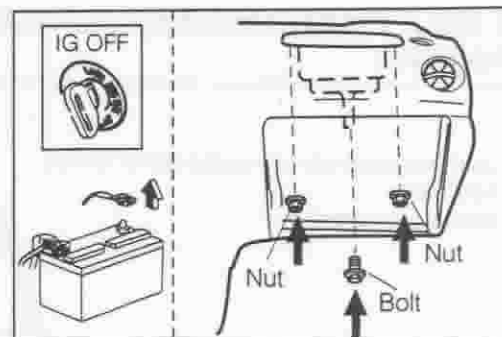
- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Install the airbag unit to the instrument panel and tighten the bolts and nuts.

Specified Torque for the Bolt:  $8.1 \pm 1.4 \text{ N}\cdot\text{m}$

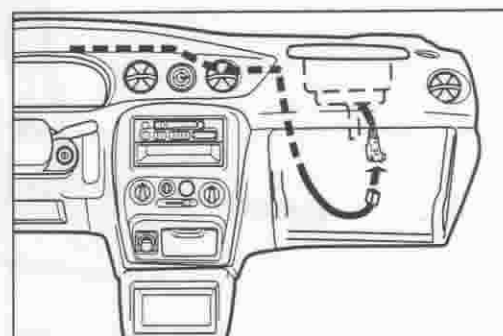
Specified Torque for the Nut:  $8.1 \pm 1.4 \text{ N}\cdot\text{m}$

- Connect the connector.

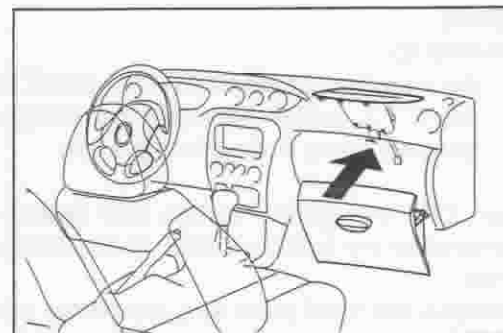
- Install the glove box.



YAB00070



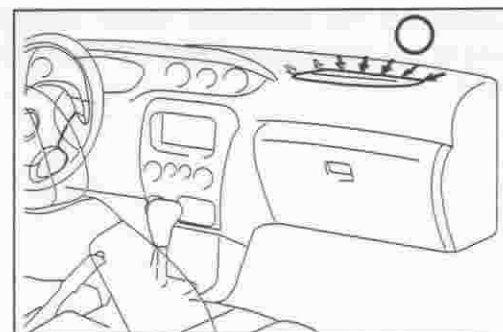
YAB00071



YAB00072

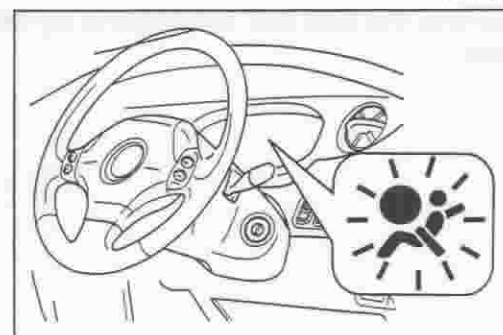
## CHECK AFTER INSTALLATION

- Ensure that the pad of the airbag unit fits properly to the instrument panel.



YAB00073

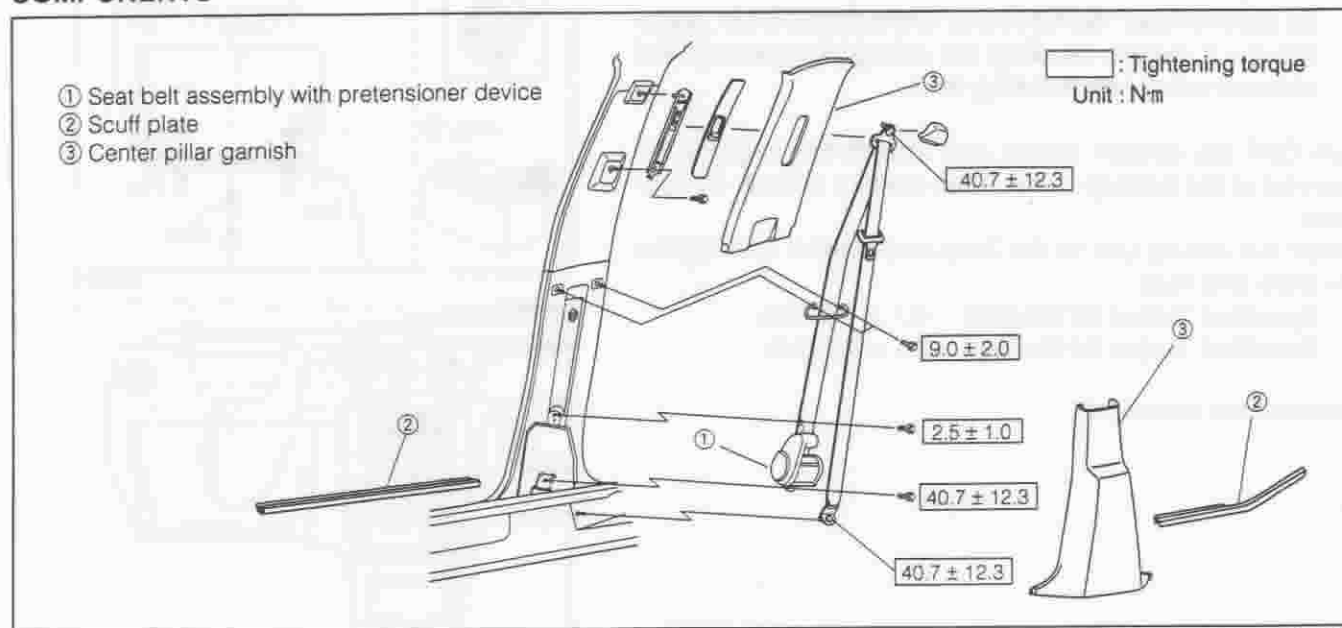
- Connect the negative (-) terminal of the battery cable to the battery terminal.
- Turn ON the ignition switch. Ensure that the airbag warning lamp illuminates for six seconds.



YAB00074

## AB-16

### SEAT BELT PRETENSIONER DEVICE COMPONENTS

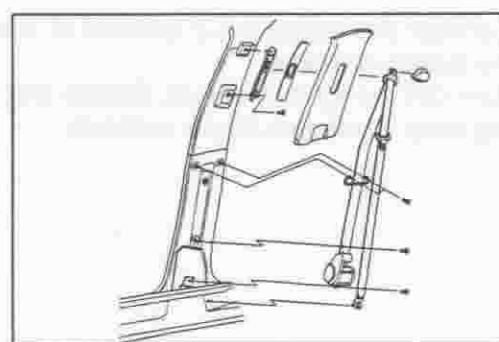
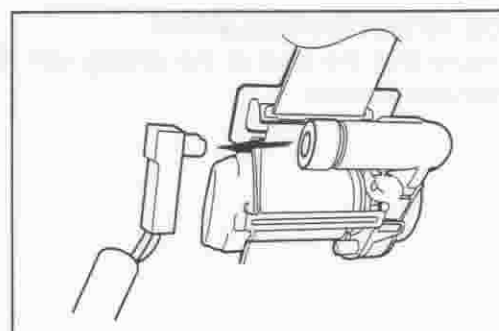
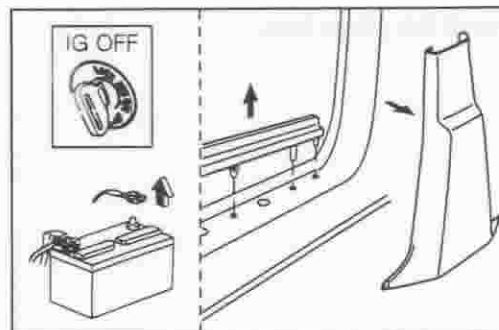


### REMOVAL

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Remove the scuff plate and the center pillar garnish.
- Disconnect the connector which connects the wire harness of the seat belt pretensioner device and the floor wire No. 1.
- Remove the seat belt pretensioner by removing attaching bolts.



## INSTALLATION

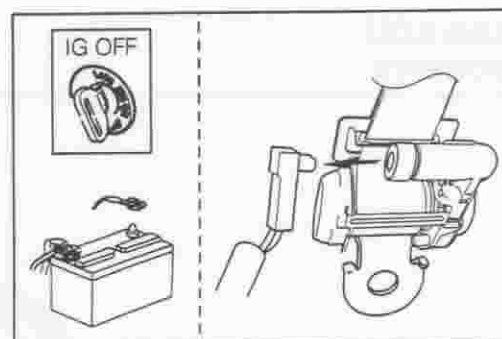
### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 -3, before handling the airbag components and observe every notice during work.

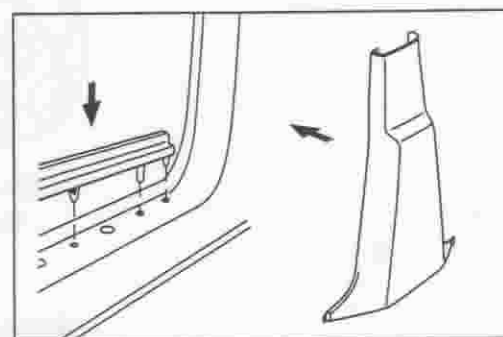
1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Install the seat belt pretensioner.
3. Connect the connector.
4. Install the center pillar garnish and the scuff plate.

### NOTE:

- As regards the installation procedures of garnish and scuff plate, refer to BBE section of the service manual.



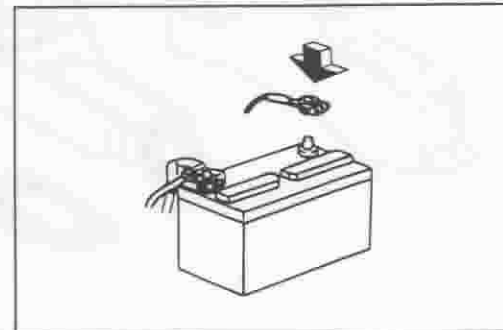
YAB00079



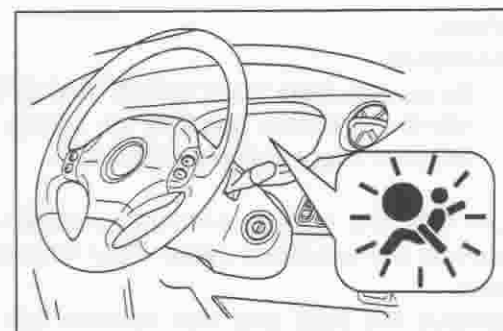
YAB00080

## CHECK AFTER INSTALLATION

1. Connect the negative (-) terminal of the battery cable to the battery terminal.
2. Turn ON the ignition switch. Ensure that the airbag warning lamp illuminates for six seconds.



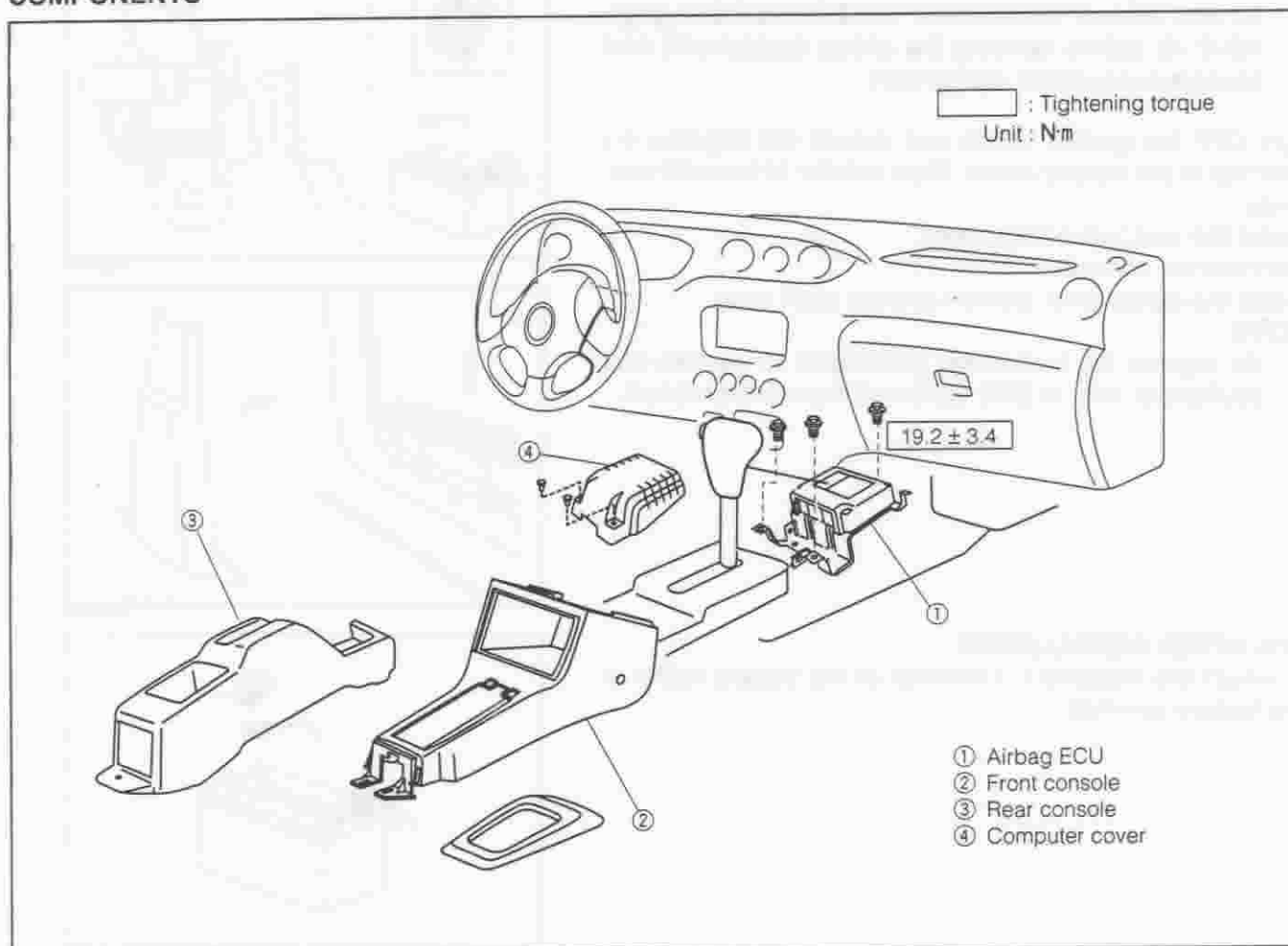
YAB00090



YAB00091

## AB-18

### AIRBAG ECU COMPONENTS



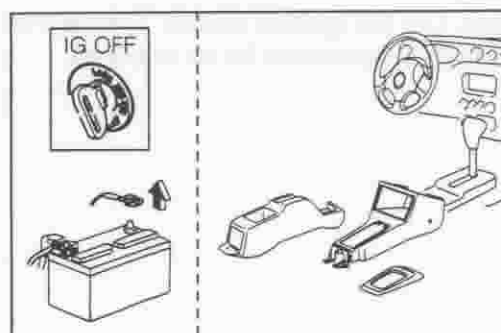
YAB00092

### REMOVAL

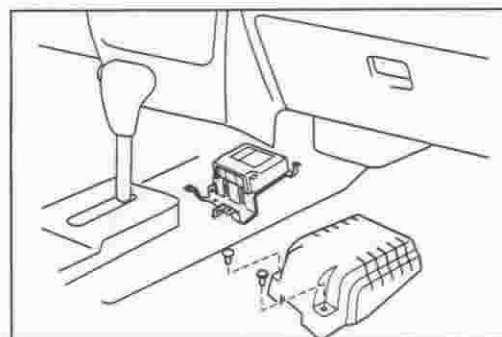
#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Remove the front and rear console box by removing attaching screws.
- Remove the computer cover.

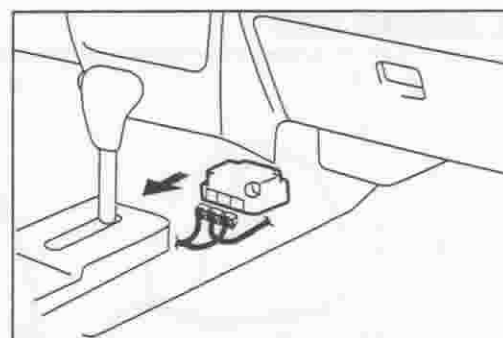


YAB00093



YAB00094

4. Disconnect the connector from the airbag ECU.
  5. Remove the airbag ECU by removing attaching bolts.
- NOTE:**
- Before removing the ECU, ensure that the connector is disconnected in advance.

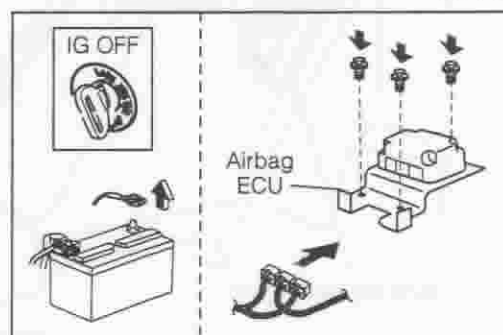


YAB00095

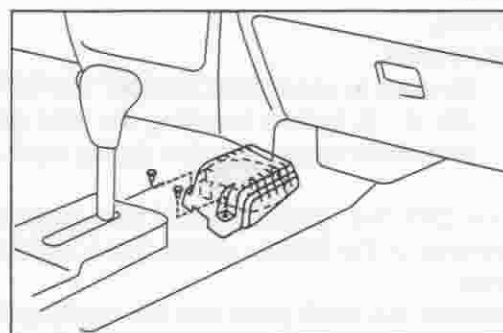
## INSTALLATION

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.
1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
  2. Install the airbag ECU.  
Specified Torque for the Bolt:  $19.2 \pm 3.4 \text{ N}\cdot\text{m}$
  3. Connect the connector.
  4. Install the computer cover.

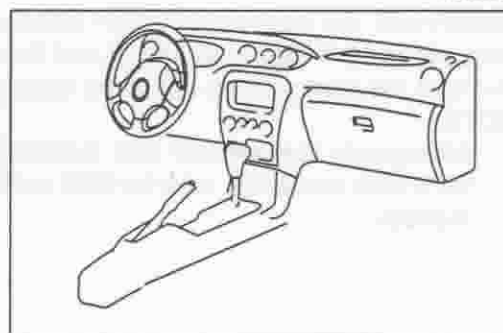


YAB00096



YAB00097

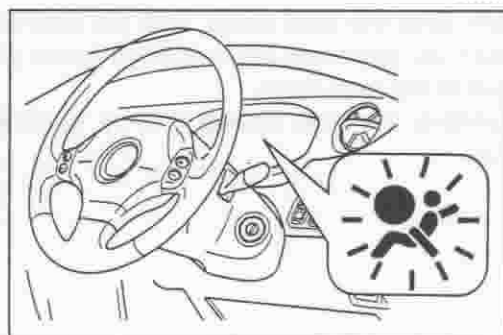
5. Install the console panel.



YAB00098

## CHECK AFTER INSTALLATION

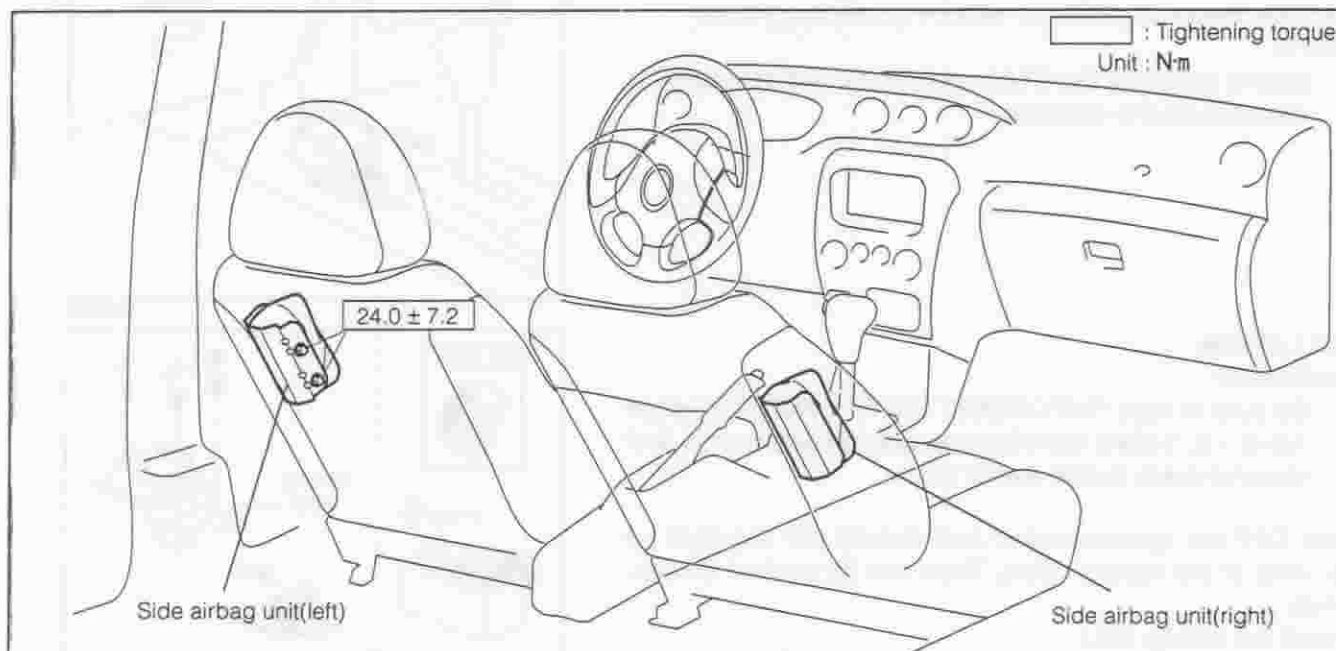
1. Connect the negative (-) terminal of the battery cable to the battery terminal.
2. Turn ON the ignition switch. Ensure that the airbag warning lamp illuminates for six seconds.



YAB00099

# AB-20

## SIDE AIRBAG UNIT



YAB00110

## REMOVAL

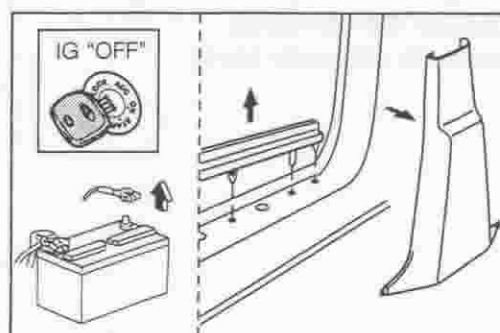
### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the side airbag components and observe every notice during work.

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Remove the scuff plate and the center pillar garnish.
- Disconnect the connector which connects the wire harness of the front seat side airbag and the floor wire No. 1.
- Remove the front seat by removing attaching bolts.

### NOTE:

- As regards the removal and installation procedures of front seat assembly, refer to BBE section of this service manual.

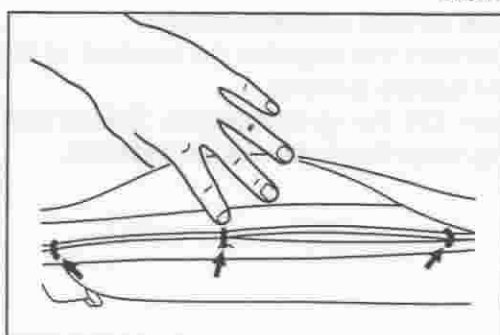


YAB00111



YAB00112

- Turn over the seat cover, until the side airbag unit can be seen, by removing the hug rings (three points) at the lower part of the seat back.
- Remove the side airbag unit by loosening the attaching nuts.



YAB00113

## INSTALLATION

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the curtain shield airbag components and observe every notice during work.

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Secure the curtain shield unit by tightening the attaching bolts.

Specified Torque:  $13.4 \pm 1.9 \text{ N}\cdot\text{m}$

3. Connect the connector.

4. Install the pillar garnish and instrument panel.

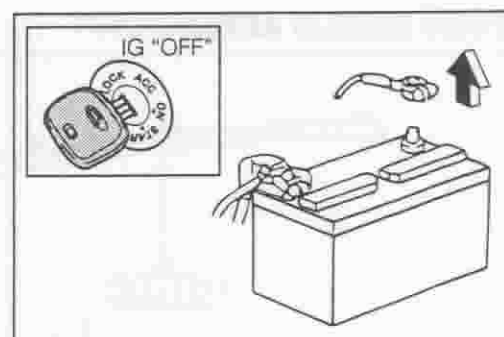
### NOTE:

- As regards the installation procedures of pillar garnish and instrument panel, refer to BBE section of this service manual.

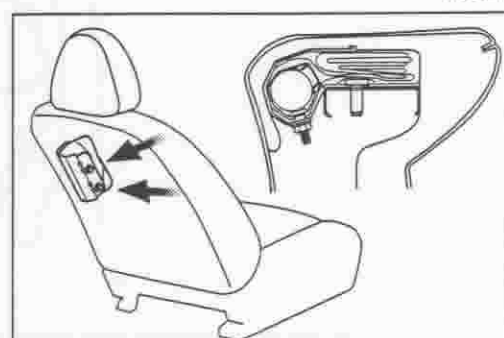
5. Install the center console box.

### NOTE:

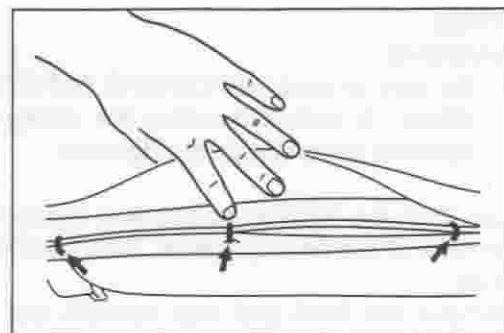
- As regards the installation procedures of console box refer to BBE section of this service manual.



YAB00114



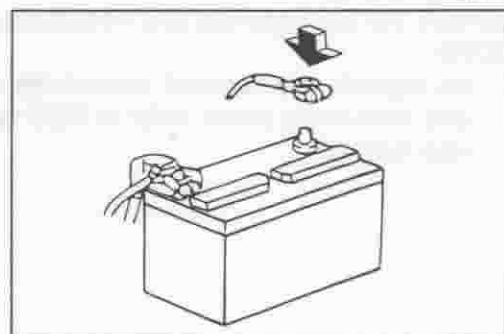
YAB00115



YAB00116

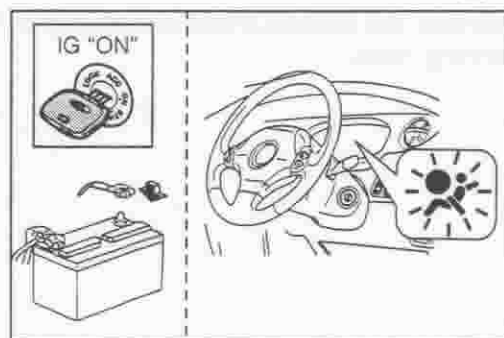
## CHECK AFTER INSTALLATION

1. Connect the negative (-) terminal of the battery cable to the battery terminal.



YAB00117

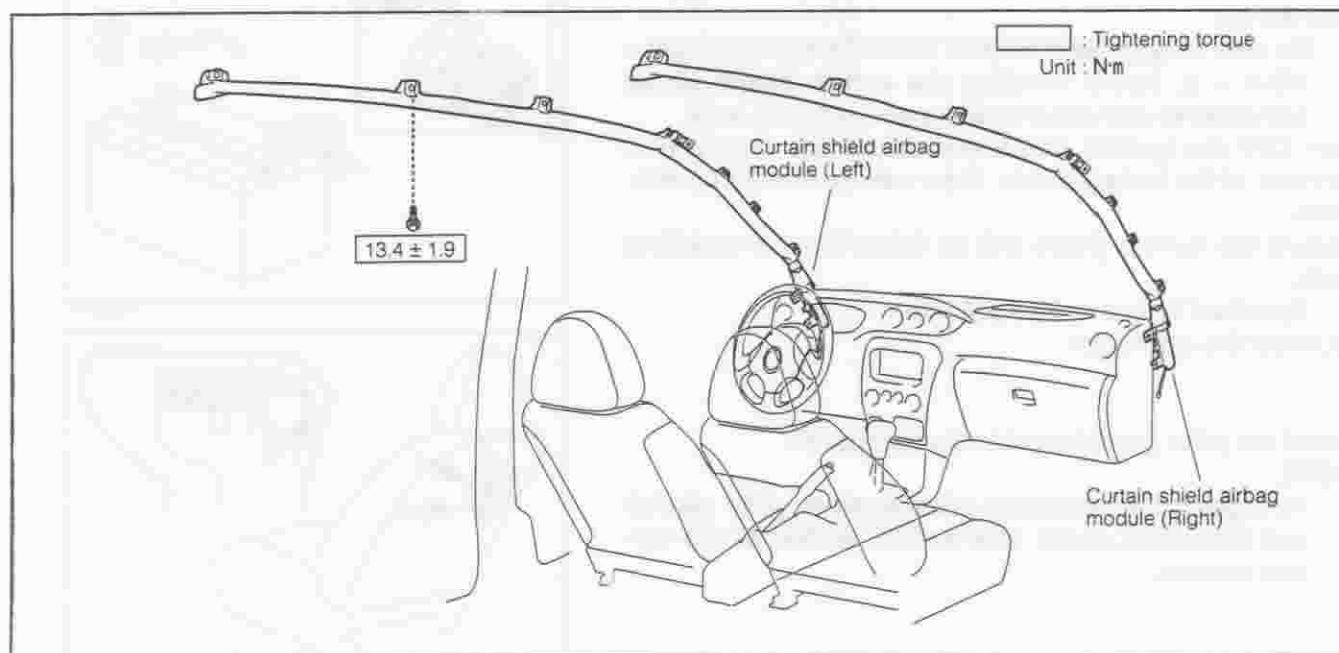
2. Turn ON the ignition switch. Ensure that the airbag warning lamp illuminates for six seconds.



YAB00118

## AB-22

### CURTAIN SHIELD AIRBAG UNIT



YAB00119

#### REMOVAL

##### WARNING:

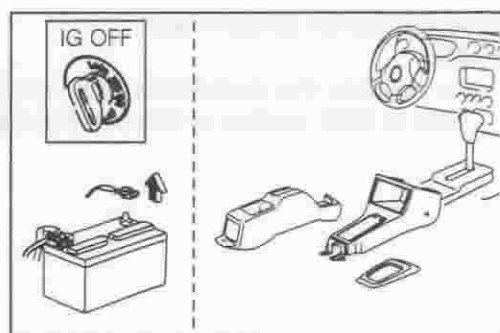
- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the airbag components and observe every notice during work.

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Remove the front and rear console box by removing attaching screws.
- Remove the pillar garnish and instrument panel.

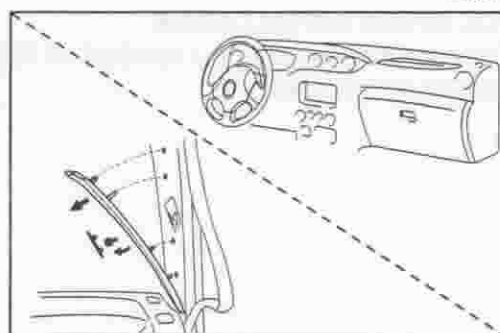
##### NOTE:

- As regards the removal procedures of pillar garnish and instrument panel, refer to BBE section of this service manual.

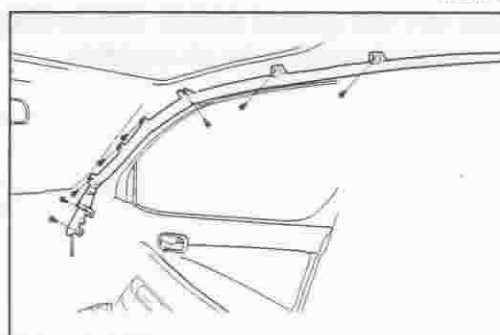
- Remove the curtain shield airbag unit by tightening the attaching bolts.



YAB00120



YAB00121

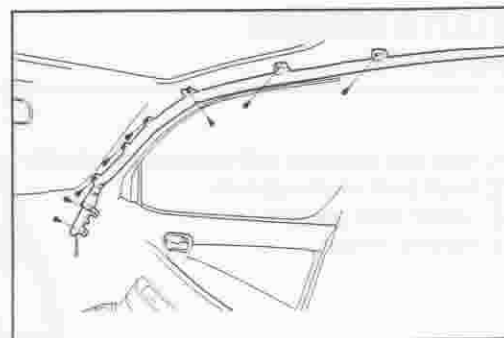


YAB00122

## INSTALLATION

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the curtain shield airbag components and observe every notice during work.
1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
  2. Secure the curtain shield unit by tightening the attaching bolts.  
Specified Torque:  $13.4 \pm 1.9 \text{ N}\cdot\text{m}$
  3. Connect the connector.

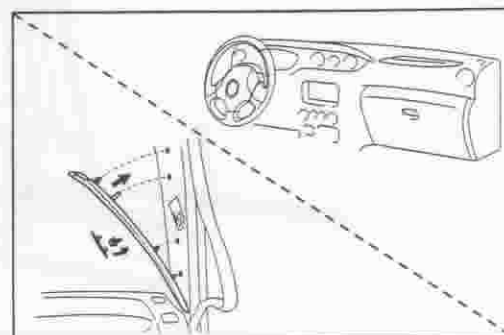


YAB00123

4. Install the pillar garnish and instrument panel.

### NOTE:

- As regards the installation procedures of pillar garnish and instrument panel, refer to BBE section of this service manual.

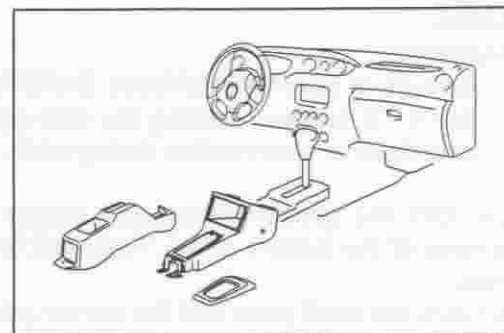


YAB00124

5. Install the center console box.

### NOTE:

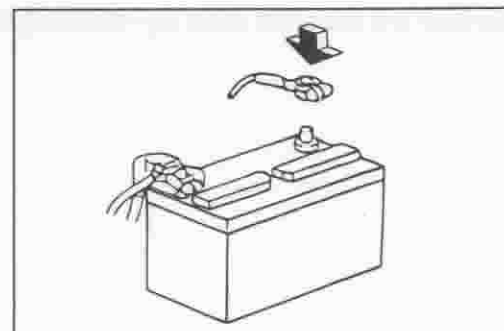
- As regards the installation procedures of console box refer to BBE section of this service manual.



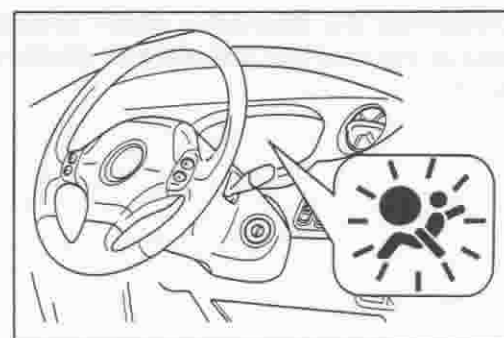
YAB00125

## CHECK AFTER INSTALLATION

1. Connect the negative (-) terminal of the battery cable to the battery terminal.
2. Turn ON the ignition switch. Ensure that the airbag warning lamp illuminates for six seconds.



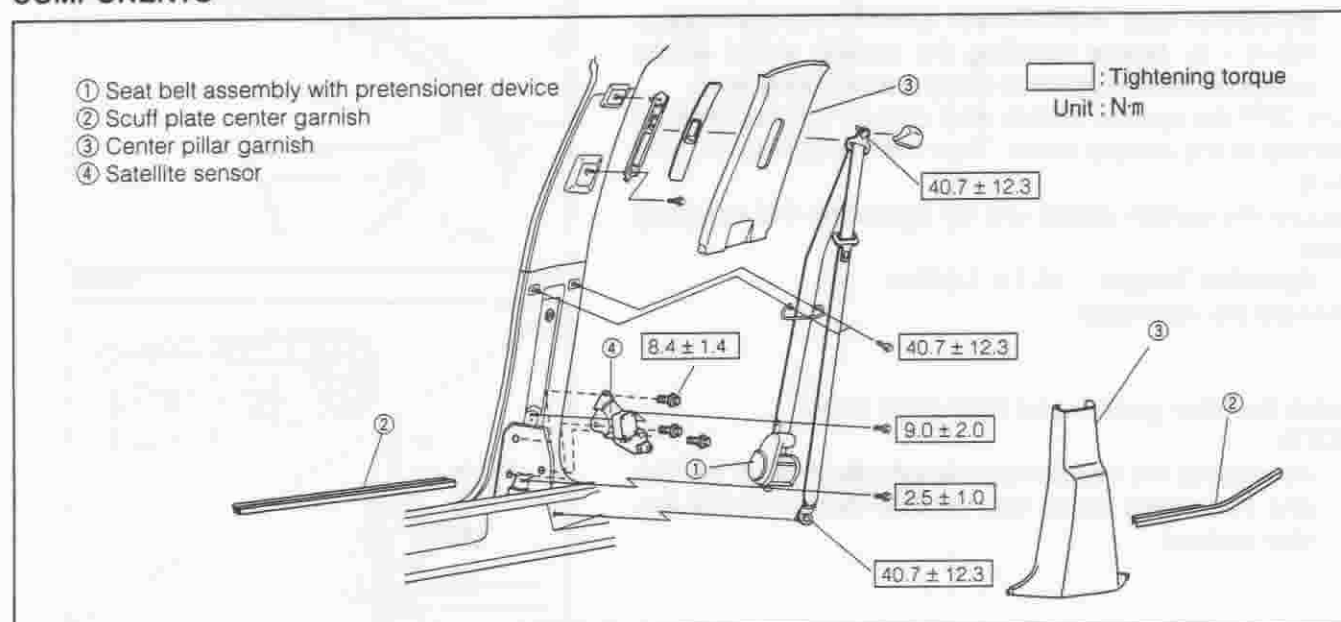
YAB00126



YAB00127

## AB-24

### SATELLITE SENSOR COMPONENTS



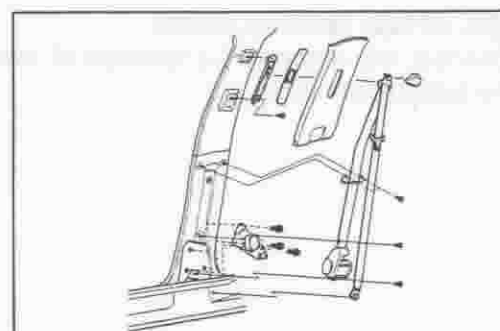
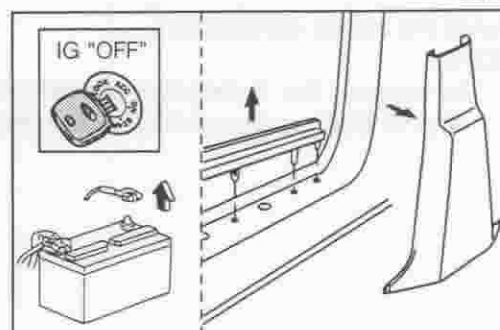
YAB00130

### REMOVAL

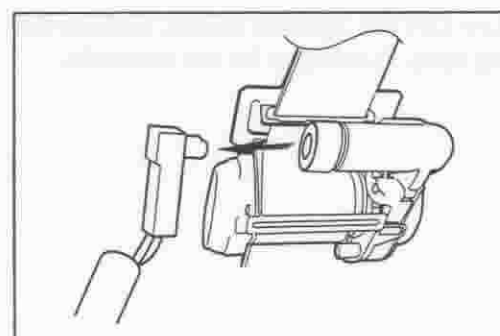
#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the side airbag components and observe every notice during work.

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Remove the scuff plate and the center pillar garnish.
- Remove the seat belt outer by removing attaching bolts.



- Disconnect the connector which connects the wire harness of the seat belt pretensioner device and the floor wire No. 1.

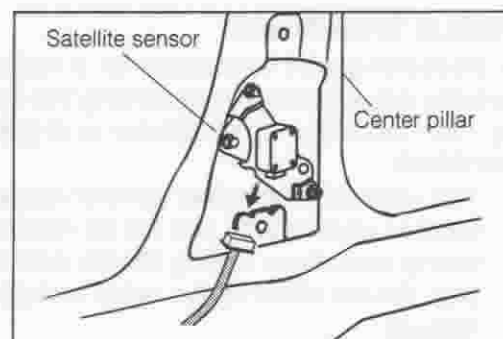


5. Disconnect the connector which connects the wire harness of the satellite sensor device and the floor wire No. 1.

**WARNING:**

- The connection and disconnection of connectors of the satellite sensor, should be carried out with the satellite sensor mounted on the vehicle.

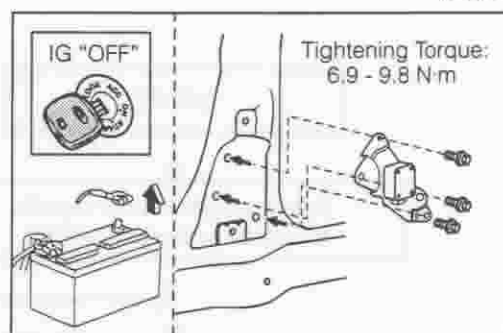
6. Remove the satellite sensor by loosening the attaching bolts



YAB00134

**INSTALLATION**

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Install the satellite sensor by tightening the attaching bolts.  
Specified Torque:  $8.4 \pm 1.4 \text{ N}\cdot\text{m}$
3. Connect the connector to the satellite sensor.



YAB00135

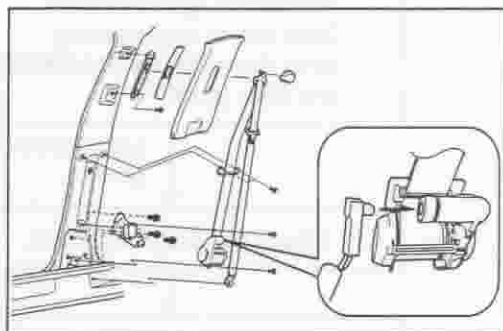
4. Connect the connectors which connect the wire harness of the seat belt pretensioner device and the floor wire No. 1.

**Specified Torque:**

Bolt:  $40.7 \pm 12.3 \text{ N}\cdot\text{m}$

Screw:  $2.5 \pm 1.0 \text{ N}\cdot\text{m}$

5. Install the seat belt pretensioner by tightening the attaching bolts and screw.

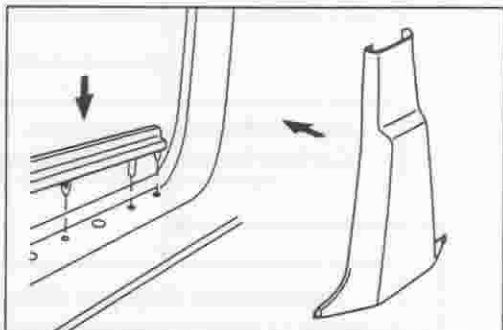


YAB00136

6. Install the center pillar garnish and the scuff plate.

**NOTE:**

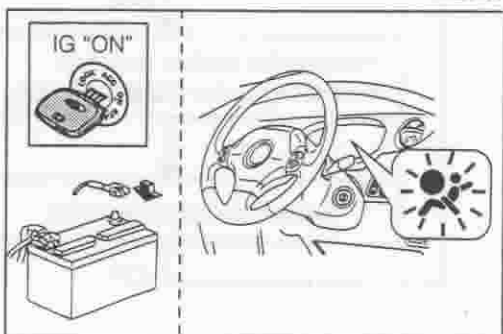
- As regards the installation procedures of center pillar garnish and scuff plate, refer to BBE section of this service manual.



YAB00137

**CHECK AFTER INSTALLATION**

1. Connect the negative (-) terminal of the battery cable to the battery terminal.
2. Turn ON the ignition switch. Ensure that the airbag warning lamp illuminates for six seconds.



YAB00138

## AB-26

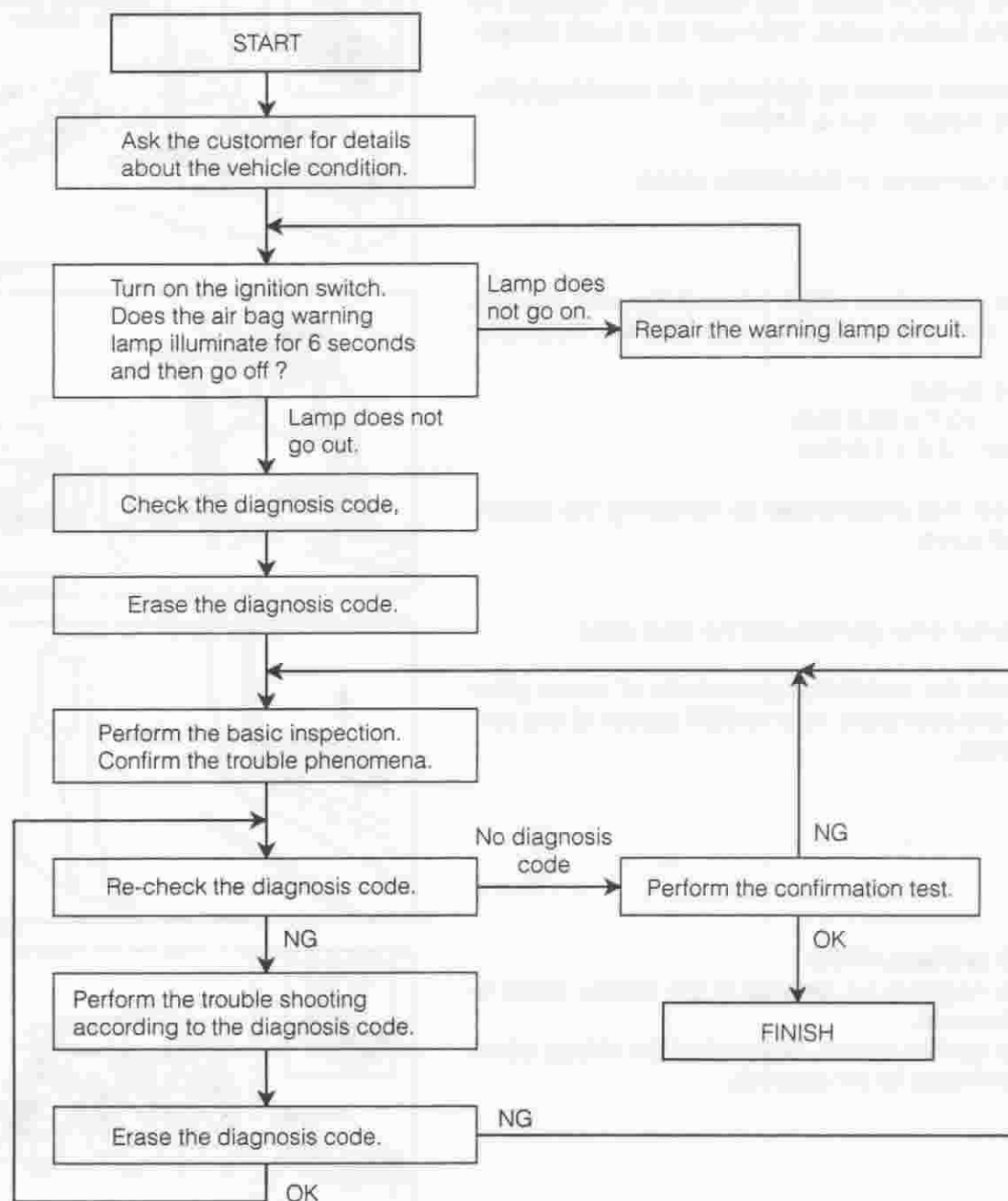
### TROUBLE SHOOTING

When proceeding with operations for a malfunctioning vehicle, it is imperative to confirm the malfunction phenomena actually before pinpointing the causes. In order to reproduce the malfunction phenomena, collecting information from the customer is of great importance.

#### WARNING:

- The aforesaid describes general notes. In the airbag system, there are some cases where the malfunction phenomena can not be reproduced due to the characteristics of the system. Therefore, any wrong operations during checks and repairs may cause the airbag to function accidentally and deploy. Please observe the notes and perform the operations according to the instructions given in the manual.

MBE00206-00000



YABHY000001

# ABNORMAL ILLUMINATION OF WARNING LAMP

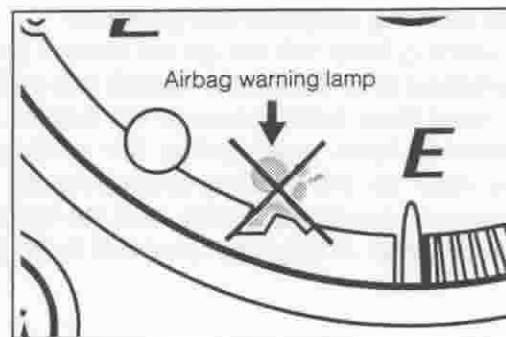
## <When warning lamp will not go on:>

If the warning lamp will not go on when the ignition switch is turned on, check the following items.

1. Battery for defects or insufficient charge
2. Battery cable for poor connection
3. ECU IG fuse for open wire (at junction block)
4. Warning lamp LED for being burnt out
5. Wire harness between airbag warning lamp and airbag ECU for abnormality

### NOTE:

- When the gauge fuse has blown, other warning lamps will not go on.
- If the cowl harness has open wire between the gauge fuse and the combination meter, other warning lamps also will not go on.



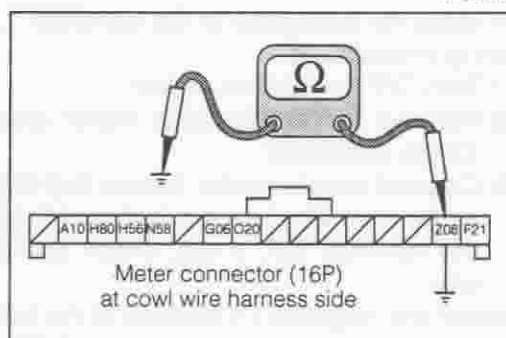
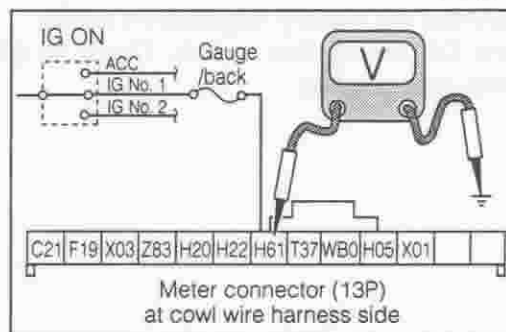
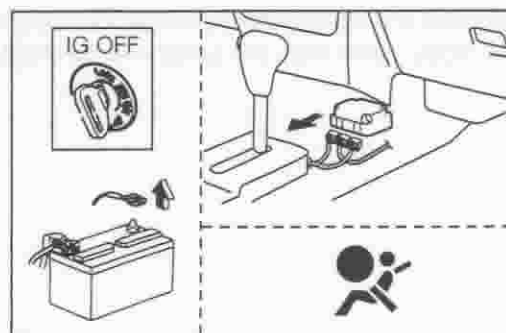
## Check of wire harness

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Remove the front and rear console box.
3. Remove the computer cover.
4. Disconnect the connector from the airbag ECU.
5. Connect the battery negative (-) cable.
6. Turn ON the ignition switch. Check to see if the warning lamp goes on.

### NOTE:

- When there is open wire between the warning lamp circuit inside the combination meter and the airbag ECU, the warning lamp goes on.

7. If the warning lamp will not go on in the condition 6, perform the following procedures.
  - (1) Remove the combination meter and disconnect the 13-pin connector.
  - (2) Connect a voltmeter. Ensure that the battery voltage exists between the terminal H61 at the cowl wire harness connector side and the body earth. If not, check and replace the cowl wire.
  - (3) Disconnect the 16-pin connector.
  - (4) Connect an ohmmeter. Ensure that continuity exists between the terminal Z08 at the cowl wire harness connector side and body earth. If no continuity exists, check and replace the cowl wire.
8. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable.



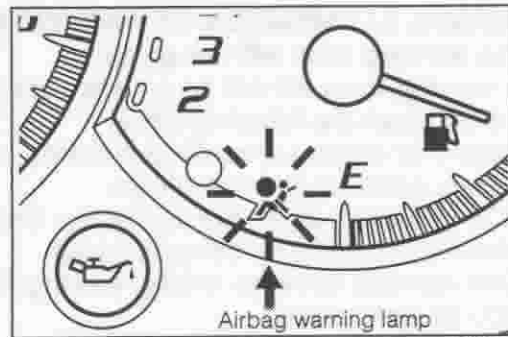
## AB-28

### <When warning lamp will not go out:>

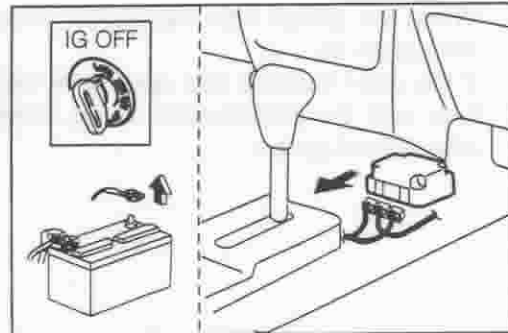
If the warning lamp will not go out even if about six seconds have elapsed after the ignition switch was turned on, malfunction is most likely taking place in the system. However, as for the following items given below, the malfunction codes can not be read by the reading procedure for the malfunction code already described before, and the warning lamp will remain illuminated. At this time, proceed to the following inspection.

### Check of wire harness

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Remove the front and rear console box by removing attaching screws.
3. Remove the computer cover.
4. Disconnect the connector from the airbag ECU.

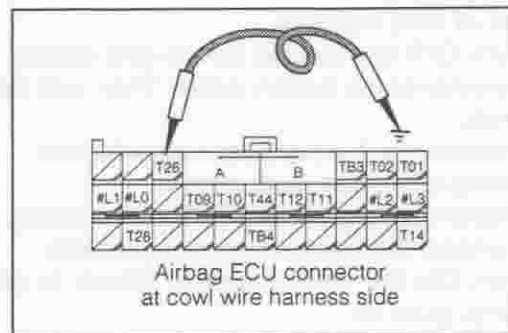


YAB00154



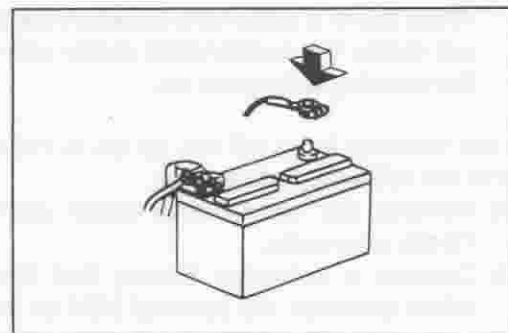
YAB00155

5. Connect the connector terminal T26 at the cowl wire side and body earth with the jump wire to short them.



YAB00156

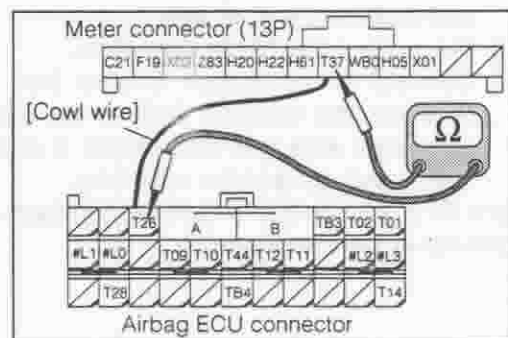
6. Connect the battery negative (-) cable.
7. Turn ON the ignition switch. Check to see if the warning lamp extinguishes.



YAB00157

8. If it does not extinguish in the condition 7, perform the following procedures.

- (1) Turn OFF the ignition switch.
- (2) Remove the combination meter and disconnect the 13-pin connector.
- (3) Connect an ohmmeter. Ensure that the continuity exists at the cowl wire harness between the terminal T26 and the terminal T37. If not, check and replace the cowl wire.



YAB00158

9. Detach the negative (-) terminal of the battery cable.

## DIAGNOSIS CHECK

### Method using check lamp

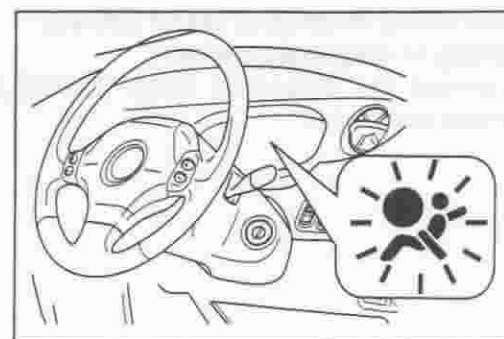
#### <Confirmation procedure for diagnosis codes>

1. Turn ON the ignition switch.
2. If the airbag warning lamp goes on for six seconds and goes out afterward, the system is functioning properly.

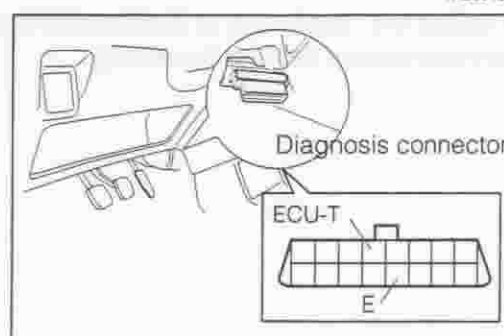
#### NOTE:

- If the lamp will not go on at this time, refer to page AB-27.

3. If the warning lamp keeps illuminated for more than six seconds, it means a certain system malfunctioning is being detected. Proceed to the following operations.
4. Connect the test terminal (ECU-T) and the earth terminal (E) with a jump wire.
5. Confirm the diagnosis code by reading the number of flashing of the combination lamp.



YAB00160



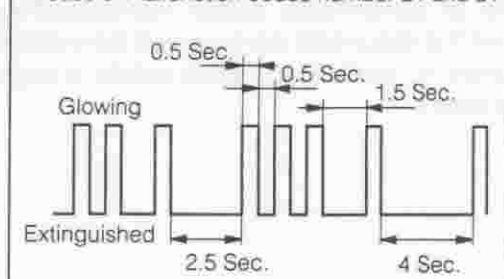
YAB00161

#### <Reading of diagnosis codes>

When two or more malfunction codes are outputted, the codes are indicated in the sequence of the code numbers, starting from a smaller number, with a four-second distinguished period interposed between codes.

After a lapse of four seconds, the malfunction codes are indicated by the repetition of a 0.5-second glowing period and a 0.5-second extinguished period. If the code is a two-digit number, the 1.5-second extinguished period is interposed between the units digit and the tens digit.

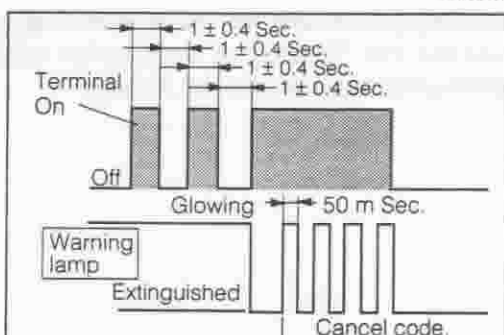
In case of malfunction codes number 21 and 31



YAB00162

#### <Canceling procedure for records of diagnosis codes>

1. The diagnosis codes can be canceled by connecting repeatedly the test terminal (ECU-T) with the earth terminal (E) at the intervals shown in the figure.

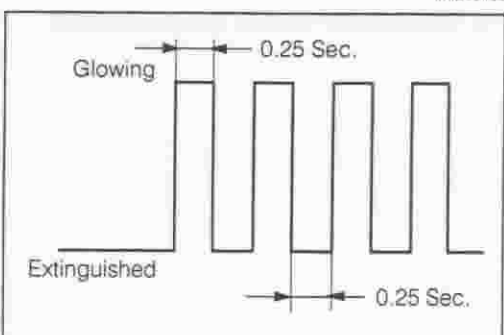


YAB00163

2. When the malfunction has been remedied and the system has resumed, the normal code shown in the figure is indicated.

#### NOTE:

- The cancellation procedure for the malfunction record can not be applied to the cancellation of the record of the malfunction for the ECU internal circuit. (Diagnosis code numbers 31)



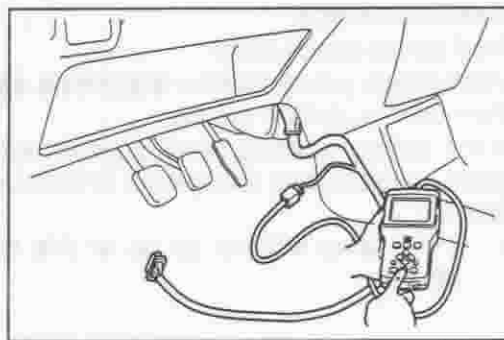
YAB00164

## AB-30

### Method using diagnostic tester (DS-21)

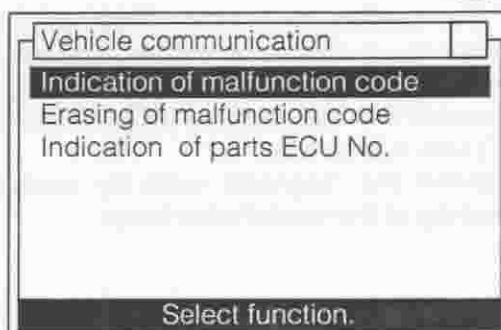
#### <Reading of diagnosis codes>

1. Connect the diagnostic tester (DS-21) to the diagnosis check connector.



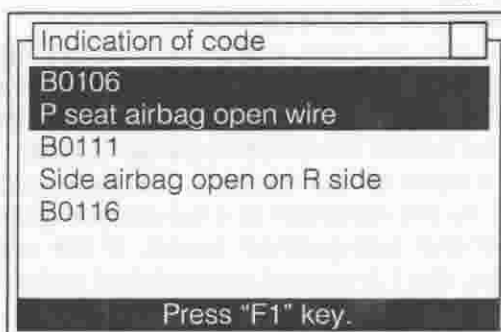
YAB00170

2. Execute the "Indication of malfunction code" of the vehicle communication item for the airbag.



YAB00171

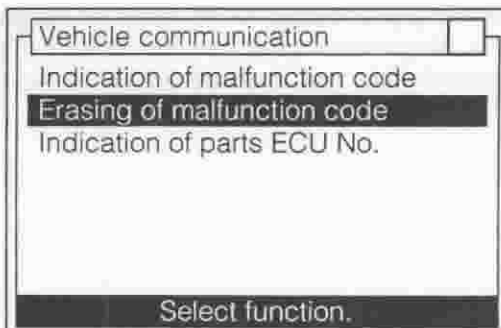
3. In cases where any malfunction code is present, the number of abnormality codes memorized in the airbag ECU and the diagnosis contents will be indicated. When no malfunction code exists, a message "Not found" appears.



YAB00172

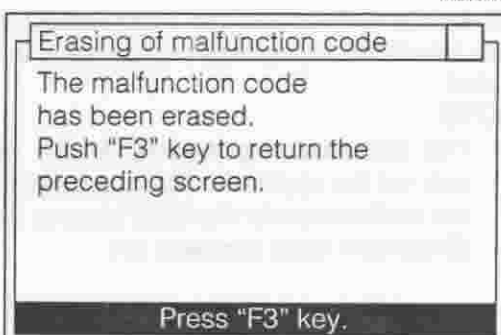
#### <Canceling procedure for records of diagnosis codes>

1. Execute the "Erasing of malfunction code" of the vehicle communication item for the airbag.



YAB00173

2. The malfunction codes will be erased.



YAB00174

# LIST OF MALFUNCTION CODES

| Diagnosis code<br>DS-21 | Diagnosis code<br>Warning lamp | Diagnosis items                                                           | Refer to<br>page |
|-------------------------|--------------------------------|---------------------------------------------------------------------------|------------------|
| B0102L                  | 11L                            | Earth short of squib system of airbag at driver's seat                    | AB-32L           |
| B0103L                  | 12L                            | Power supply short of squib system of airbag at driver's seat             | AB-33L           |
| B0100L                  | 13L                            | Shorted between wires of squib system of airbag at driver's seat          | AB-35            |
| B0101L                  | 14L                            | Open wire of squib system of air bag at driver's seat                     | AB-34L           |
| B0119L                  | 29L                            | Abnormality of open wire of IG1                                           | AB-36L           |
| B0120L                  |                                | Abnormality of open wire of IG2                                           | AB-36L           |
| B1100L                  | 31L                            | Airbag ECU faulty                                                         | AB-68L           |
| B1140L                  | 32L                            | Right satellite sensor faulty                                             | AB-37L           |
| B1141L                  | 33L                            | Left satellite sensor faulty                                              | AB-39L           |
| B0112L                  | 41L                            | Earth short of squib system of right side airbag                          | AB-40L           |
| B0113L                  | 42L                            | Power supply short of squib system of right side airbag                   | AB-41L           |
| B0110L                  | 43L                            | Shorted between wires of squib system of right side airbag                | AB-42L           |
| B0111L                  | 44L                            | Open wire of squib system of right side airbag                            | AB-43L           |
| B0117L                  | 45L                            | Earth short of squib system of left side airbag                           | AB-44L           |
| B0118L                  | 46L                            | Power supply short of squib system of left side airbag                    | AB-45            |
| B0115L                  | 47L                            | Shorted between wires of squib system of left side airbag                 | AB-46L           |
| B0116L                  | 48L                            | Open wire of squib system of left side airbag                             | AB-47L           |
| B0107L                  | 51L                            | Earth short of squib system of airbag at passenger seat                   | AB-48L           |
| B0108L                  | 52L                            | Power supply short of squib system of airbag at passenger seat            | AB-49L           |
| B0105L                  | 53L                            | Shorted between wires of squib system of airbag at passenger seat         | AB-51L           |
| B0106L                  | 54L                            | Open wire of squib system of airbag at passenger seat                     | AB-50L           |
| B0132L                  | 61L                            | Earth short of squib system of right pretensioner                         | AB-52L           |
| B0133L                  | 62L                            | Power supply short of squib system of right pretensioner                  | AB-53L           |
| B0130L                  | 63L                            | Shorted between wires of squib system of right pretensioner               | AB-54L           |
| B0131L                  | 64L                            | Open wire of squib system of right pretensioner                           | AB-55L           |
| B0137L                  | 71L                            | Earth short of squib system of left pretensioner                          | AB-56L           |
| B0138L                  | 72L                            | Power supply short of squib system of left pretensioner                   | AB-57L           |
| B0135L                  | 73                             | Shorted between wires of squib system of left pretensioner                | AB-58L           |
| B0136                   | 74L                            | Open wire of squib system of left pretensioner                            | AB-59L           |
| B1160                   | 83L                            | Shorted between wires of squib system of right side curtain shield airbag | AB-62L           |
| B1161                   | 84                             | Open wires of squib system of right side curtain shield airbag            | AB-63L           |
| B1162                   | 81                             | Earth short of squib system of right side curtain shield airbag           | AB-60L           |
| B1163                   | 82                             | Power supply short of squib system of right side curtain shield airbag    | AB-61L           |
| B1165                   | 87                             | Shorted between wires of squib system of left side curtain shield airbag  | AB-66L           |
| B1166                   | 88                             | Open wires of squib system of left side curtain shield airbag             | AB-67L           |
| B1167                   | 85                             | Earth short of squib system of left side curtain shield airbag            | AB-64L           |
| B1168                   | 86                             | Power supply short of squib system of left side curtain shield airbag     | AB-65            |
| B1310                   | 91L                            | Airbag already deployed (Deployed due to G input in collision)            | AB-68            |
| B1312L                  | 93L                            | Fuel cut signal already outputted                                         | AB-68            |
| B1300L                  | 21L                            | Battery voltage dropped                                                   | AB-36            |
| B1301L                  | 22L                            | Open wire of IG1, voltage dropped                                         | AB-36            |
| B1302L                  | 23L                            | Open wire of IG2, voltage dropped                                         | AB-36            |
| B1303L                  | 24L                            | W/L faulty                                                                | AB-37            |
| B1304L                  | 25L                            | Abnormal number of squibs                                                 | AB-69            |
| B1305L                  | 26                             | Abnormal output line of fuel cut sensor                                   | AB-69            |
| B1306                   |                                | Abnormal output line of door lock releasing sensor                        | AB-70            |

## CAUTION:

- After carrying out the trouble shooting according to diagnosis codes, cancel the diagnosis codes by following the code canceling method described at page AB-29.
- Even though the malfunction has been remedied, the code is not canceled automatically.

YABHYO00005

## AB-32

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0102   | Code No. 11           |

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2- 3, before handling the airbag components and observe every notice during work.

### NOTE:

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 19 of this service manual.

### Inspection

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector from the airbag ECU.
- Remove the steering pad assembly (airbag unit) from the steering wheel.
- Disconnect the pad assembly connector from the roll connector.
- Ensure that the no continuity exists between the roll connector terminal and the body earth.

Between Terminal F2 and Body Earth:

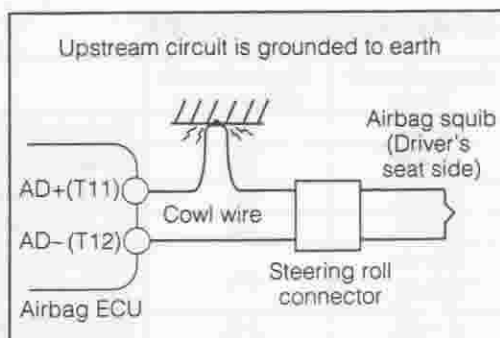
No continuity exists.

Between Terminal G2 and Body Earth:

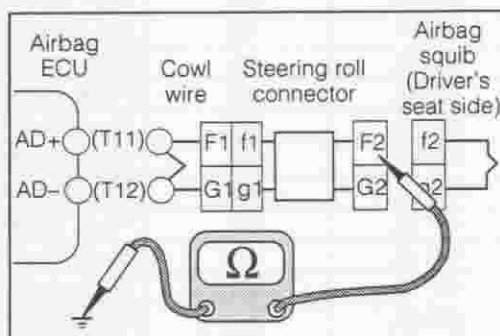
No continuity exists.

- If the terminal is shorted with the body earth, it is necessary to know whether the faulty point is attributable to the inside of the roll connector. To this end, disconnect the coupling connector of the roll connector and the wire cowl. Then, perform check with a circuit tester. If a short circuit is found, replace the faulty part with a new one.
- Connect the connector at the vehicle wire harness side and the airbag ECU connector.
- Connect the battery negative (-) cable.
- Turn ON the ignition switch and take a reading of the diagnosis code.

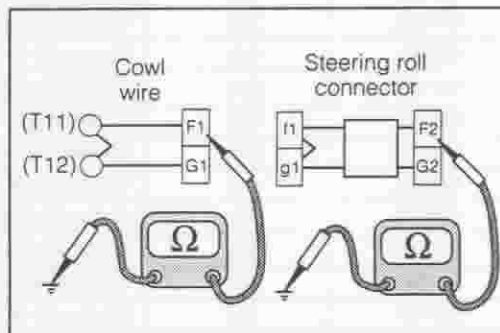
- After the inspection and installation, cancel the diagnosis code and confirm that the code 11 is not outputted any more.



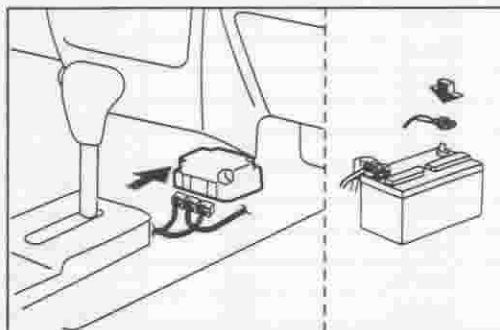
YAB00200



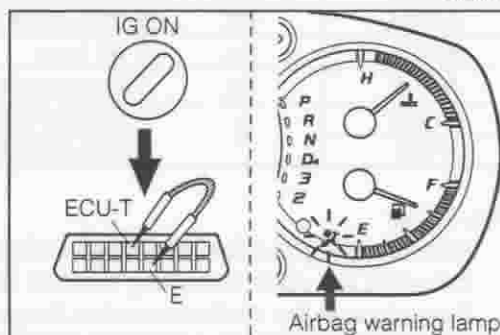
YAB00201



YAB00202



YAB00203



YAB00204

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0103   | Code No. 12           |

**WARNING:**

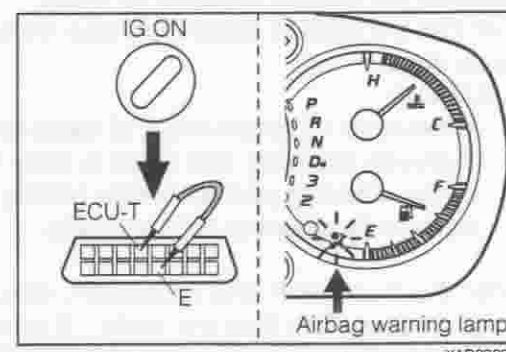
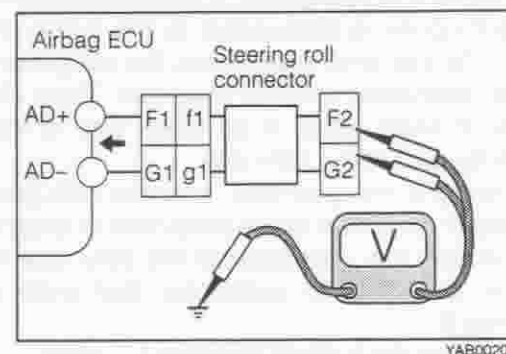
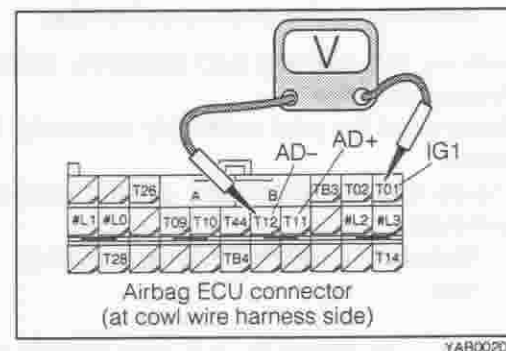
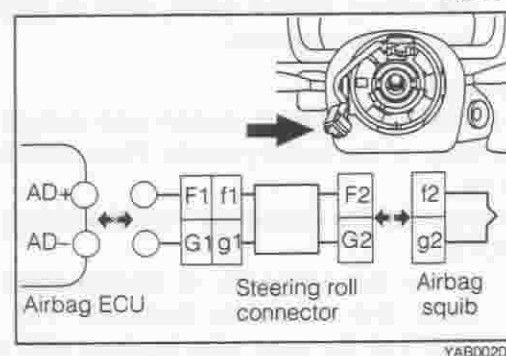
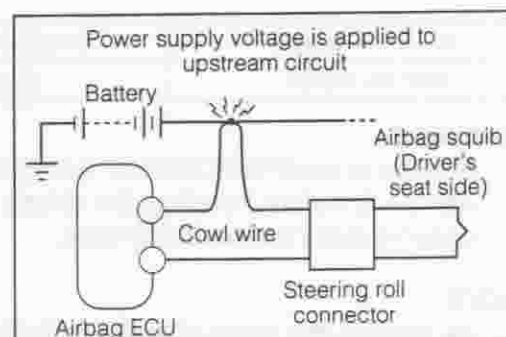
- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.
- When this code is indicated, the airbag system may operate as soon as the safing sensor at the ECU is turned on. Hence, if this code is indicated, immediately turn off the ignition key switch and proceed to the following steps.

**Explosion-preventive measure**

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Disconnect the connector from the airbag ECU.
3. Remove the steering pad assembly (airbag unit) from the steering wheel.
4. Disconnect the pad assembly connector from the roll connector.

**Inspection**

1. Connect the battery negative (-) cable.
2. Connect the voltmeter to the vehicle wire harness side terminals. Then, turn on the ignition switch.
  - Between Terminal T11 (AD+) and T01 (IG1):  
No voltage exists.
  - Between Terminal T12 (AD-) and T01 (IG1):  
No voltage exists.
3. Turn OFF the ignition switch.
4. Connect the connector at the vehicle wire harness side and the airbag ECU connector.
5. Connect the voltmeter between the roll connector terminal and body earth.
6. Turn ON the ignition switch. Ensure that no voltage exists between the terminal and body earth.
  - Between Terminal F2 and Body Earth:  
No voltage exists.
  - Between Terminal G2 and Body Earth:  
No voltage exists.
7. After the inspection and installation, cancel the diagnosis code and confirm that the code 12 is not outputted any more.



# AB-34

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0101   | Code No. 14           |

## WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

## NOTE:

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

## Inspection

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector from the airbag ECU.

## NOTE:

- When the connector is disconnected from the airbag ECU, the connector terminals T11 (AD+) and T12 (AD-) at the cowl wire harness side are shorted automatically by the short circuit bridge.

- Remove the steering pad assembly (airbag unit) from the steering wheel.
- Disconnect the pad assembly connector from the roll connector.
- Ensure that the continuity exists between the respective terminals.

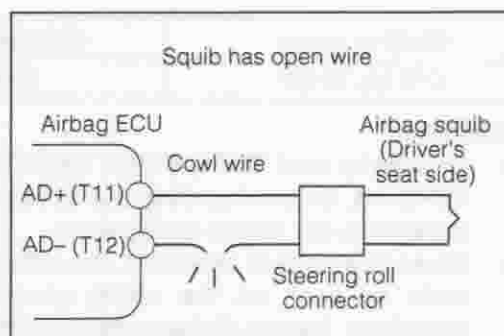
Between Terminal F2 (+) and G2 (-): Continuity exists.

- If there is no continuity, it is necessary to know whether the faulty point is attributable to the inside of the roll connector. To this end, disconnect the coupling connector of the roll connector and the cowl wire. Then, check the continuity of each parts. If an open wire is found, replace the faulty part with a new one.
- If there is no open wire, connect both ends of the roll connector terminals with a jump wire to short them.
- Connect the connector at the cowl wire harness side and the airbag ECU connector that were disconnected at Step 2.
- Connect the battery negative (-) cable.
- Turn ON the ignition switch and take a reading of the diagnosis code.

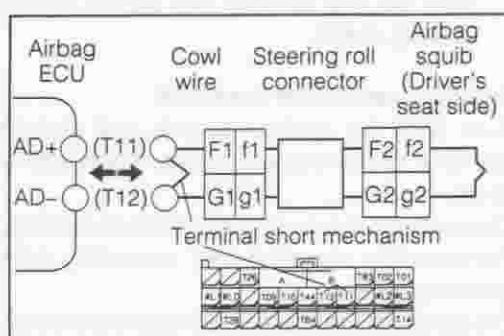
## CAUTION:

- If the code 13 (short circuit of squib circuit) is indicated, it proves indirectly that there is open wire in the squib of the steering pad assembly (airbag unit). Therefore, replace the steering pad assembly.

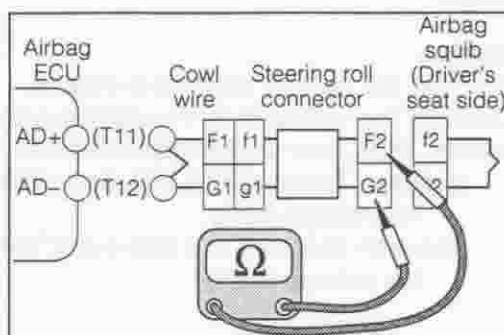
- After the inspection and installation, cancel the diagnosis code and confirm that the code 13 and 14 are not outputted any more.



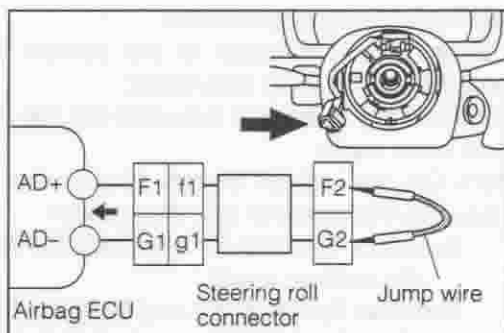
YAB00210



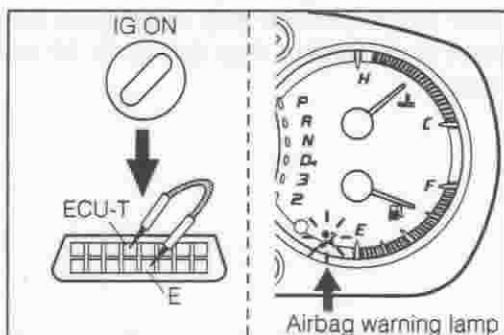
YAB00211



YAB00212



YAB00213



YAB00214

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0100   | Code No. 13           |

**WARNING:**

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

**NOTE:**

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

**Inspection**

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Remove the steering pad assembly (airbag unit) from the steering wheel.
3. Disconnect the pad assembly connector from the roll connector.
4. Remove the computer cover. Disconnect the connector at the vehicle wire harness side from the airbag ECU.
5. Using a wooden or plastic piece, raise the short circuit bridge at the sections T11 (AD+) and T12 (AD-) of the connector at the vehicle wire harness side which was removed from the ECU. In this way, disconnect the shorted contact points.

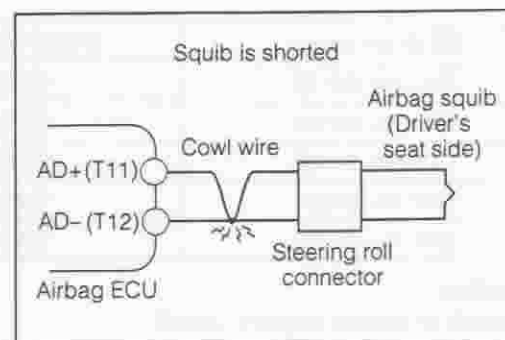
6. Connect the ohmmeter to the roll connector terminal. Check to see if any short circuit exists from the airbag ECU to the roll connector via the wire harness.

Between Terminal F2 and G2: No continuity exists.

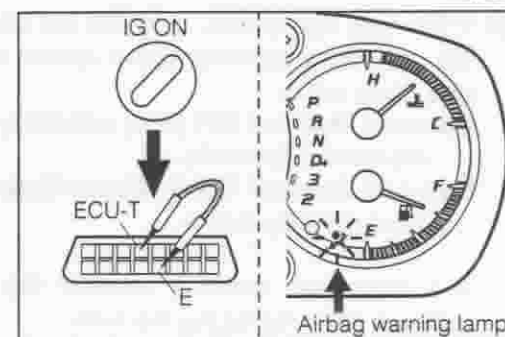
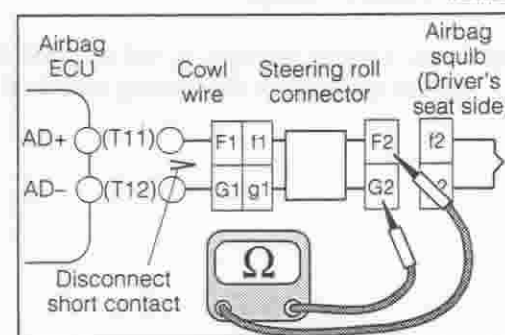
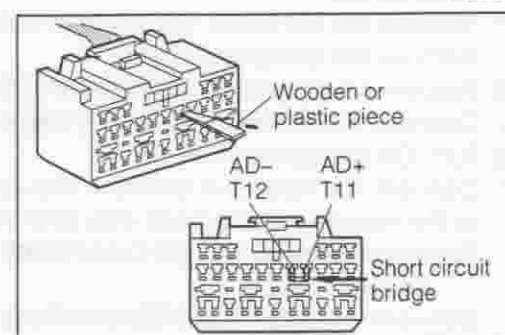
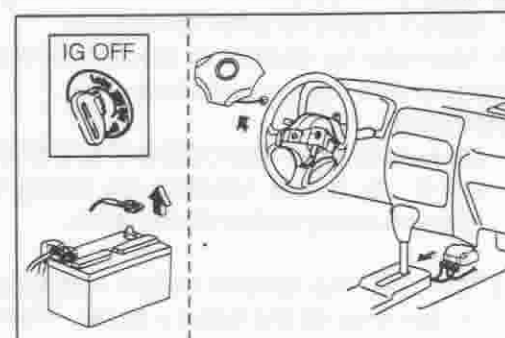
7. If the wiring harness is shorted, it is necessary to know whether the faulty point is attributable to the inside of the roll connector. To this end, disconnect the coupling connector of the roll connector and the wire cowl. Then, perform check with the ohmmeter. If a short circuit is found, replace the faulty part with a new one.

**NOTE:**

- At this time, turn the steering wheel in a right-and-left direction and ensure that there is no change in the indication of the circuit tester.
8. After the inspection and installation, cancel the diagnosis code and confirm that the code 13 is not outputted any more.



YAB00220



## AB-36

| DS-21 on screen | Check lamp indication |
|-----------------|-----------------------|
| DTC No. B0119   | Code No. 29           |
| DTC No. B0120   | Code No. 29           |
| DTC No. B1300   | Code No. 21           |
| DTC No. B1301   | Code No. 22           |
| DTC No. B1302   | Code No. 23           |

### Inspection

1. Check of power supply circuit
  - (1) Battery for defects or insufficient charge
  - (2) Battery cable for poor connection
  - (3) Alternator for defects or insufficient charge

2. Check of wire harness and fuse

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.

- (2) Remove the front and rear console box.
- (3) Remove the computer cover.
- (4) Disconnect the connector from the airbag ECU.
- (5) Connect the battery negative (-) cable.
- (6) Turn ON the ignition switch.

- (7) Connect the voltmeter between the connector terminal at the vehicle wire harness side and body earth.

Between Terminal T01 (IG1) and Body Earth:

Battery voltage

Between Terminal T02 (IG2) and Body Earth:

Battery voltage

- (8) If the battery voltage is not applied to each terminal, pull off and check the airbag fuse and engine fuse.

- (9) If the fuse has blown, connect the ohmmeter between the connector terminal at the vehicle wire harness side and body earth.

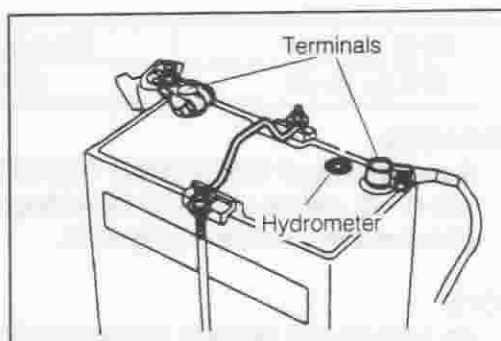
Between Terminal T01 (IG1) and Body Earth:

No continuity exists.

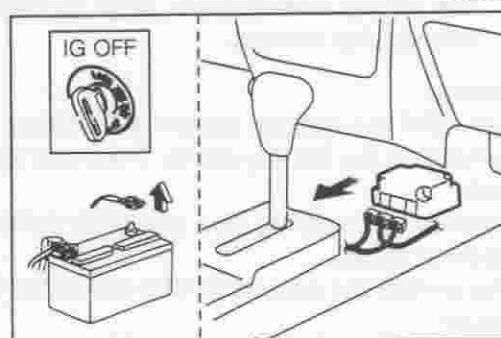
Between Terminal T02 (IG2) and Body Earth:

No continuity exists.

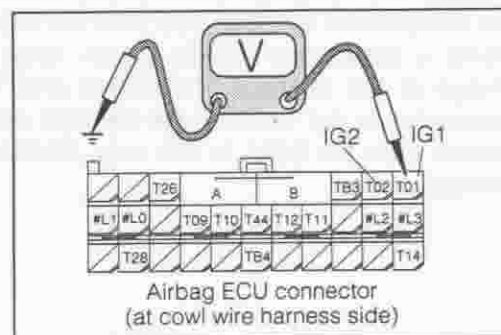
If it might be shorted, replace the harness. If not, recheck after replacing the fuse.



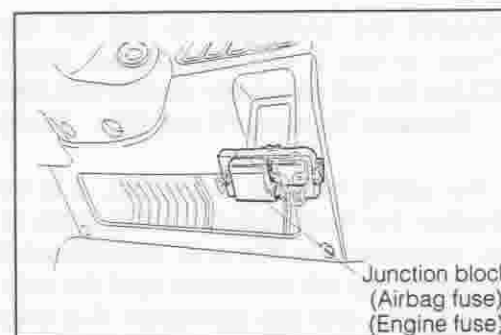
YAB00225



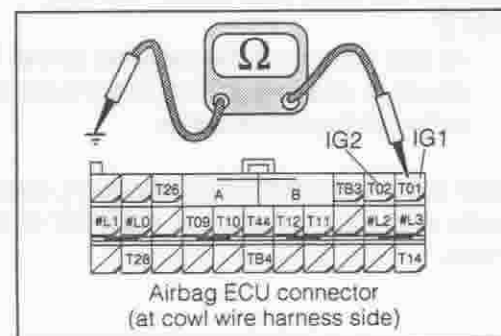
YAB00226



YAB00227



YAB00228



YAB00229

- (10) If the fuse has not blown, connect the ohmmeter between the connector terminal at the vehicle wire harness side and the fuse terminal.

Between Terminal T01 (IG1)

and Engine Fuse Terminal (at Junction Block):

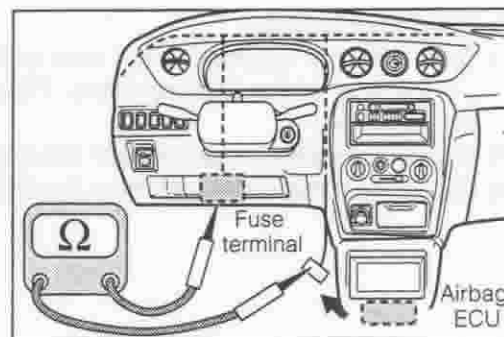
Continuity exists.

Between Terminal T02 (IG2)

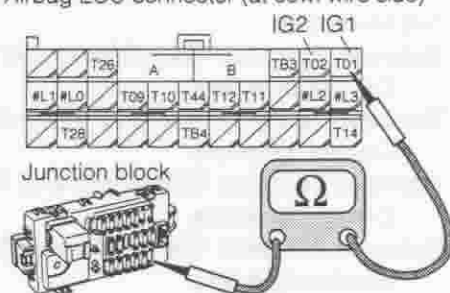
and Airbag Fuse Terminal (at Junction Block):

Continuity exists.

- (11) If it might have open wire, replace the harness. If not, recheck the battery and power supply circuit.



Airbag ECU connector (at cowl wire side)



|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1303   | Code No. 24           |

Possible cause for malfunction: Abnormality in warning lamp illuminating circuit

**NOTE:**

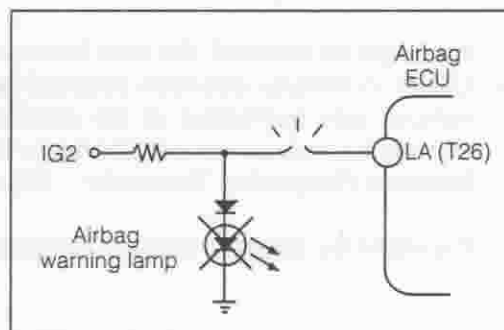
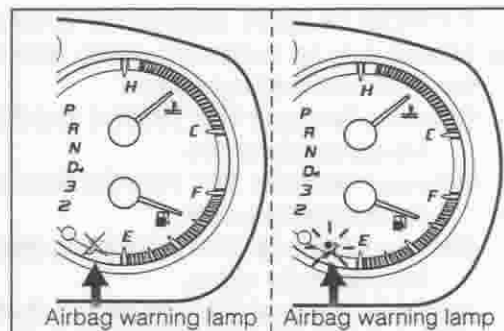
- When this code is memorized, it indicates that open wire has taken place in the warning lamp circuit even though it occurred temporarily. However, if this code is now indicated, it means the circuit (wire harnesses, connectors, etc.) has been remedied to the normal condition.

**Inspection**

As regards the inspection procedures for the warning lamp illuminating circuit, refer to page AB-9 of this service manual.

**WARNING:**

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

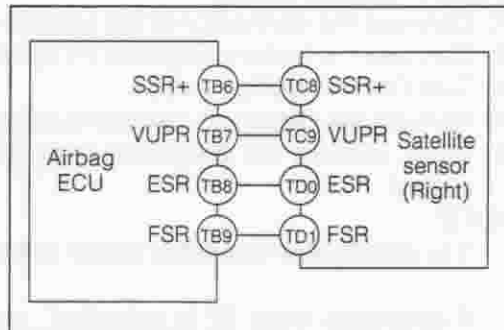


|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1140   | Code No. 32           |

Cases where the squib circuit between the airbag ECU and the satellite sensor is shorted with the ground or open wire.

**WARNING:**

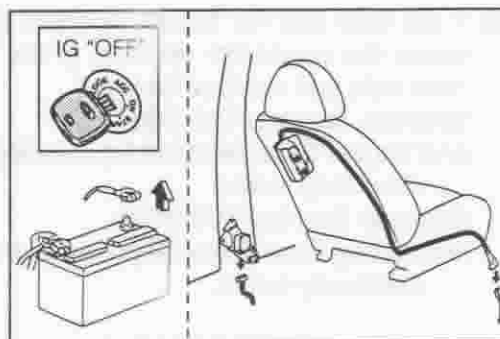
- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the side airbag components and observe every notice during work.



## AB-38

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor.
- (3) Disconnect the connector from the side airbag unit.



YAB00263

- (4) Ensure that the continuity exists between the respective terminals.

Between Terminal TB6 (SSR+) and TD1 (SSR+):

Continuity exists.

Between Terminal TB7 (VUPR) and TD0 (VUPR):

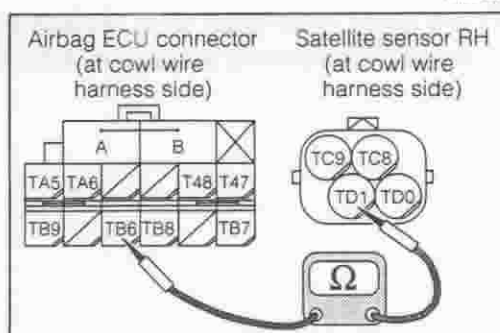
Continuity exists.

Between Terminal TB8 (ESR) and TC9 (ESR):

Continuity exists.

Between Terminal TB9 (FSR) and TC8 (FSR):

Continuity exists.



YAB00264

If it might be open, replace the wire harness.

- (5) Ensure that no continuity exists between the cowl wire terminal and the body earth.

Between Terminal TB6 (SSR+) and Body Earth:

No continuity exists.

Between Terminal TB7 (VUPR) and Body Earth:

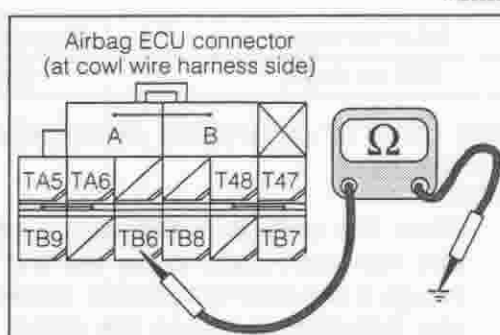
No continuity exists.

Between Terminal TB8 (ESR) and Body Earth:

No continuity exists.

Between Terminal TB9 (FSR) and Body Earth:

No continuity exists.



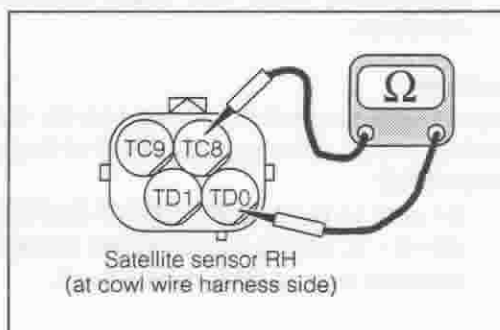
YAB00265

If it might be shorted, the wire harness.

- (6) Check continuity between respective terminals of the vehicle side connector of the satellite sensor. Ensure that the harnesses are not shorted with each other.

Between Respective Terminals: NO continuity exists.

If it might be shorted, replace the wire harness.



YAB00266

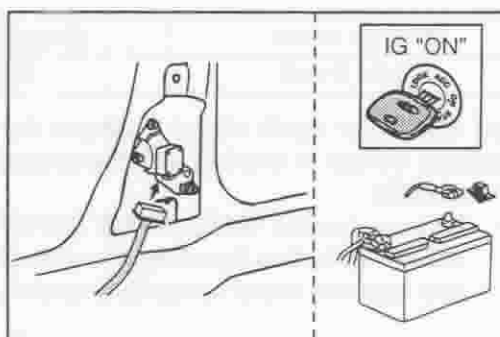
### 2. Check of satellite sensor

- (1) Connect the connector of the satellite sensor.
- (2) Connect the battery negative (-) cable.
- (3) Turn ON the ignition switch.
- (4) Perform the diagnosis canceling procedure.
- (5) Then, confirm the diagnosis code 32 will not be outputted.

#### NOTE:

- It is permissible that other codes are outputted.

If diagnosis code 32 is outputted, replace the satellite sensor.



YAB00267

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1141   | Code No. 33           |

Cases where the squib circuit between the airbag ECU and the satellite sensor is shorted with the ground or open wire.

**WARNING:**

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the side airbag components and observe every notice during work.

1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor.
- (3) Disconnect the connector from the side airbag unit.

- (4) Ensure that the continuity exists between the respective terminals.

Between Terminal TC0 (SSL+) and TD5 (SSL+):

Continuity exists.

Between Terminal TC1 (VUPL) and TD4 (VUPL):

Continuity exists.

Between Terminal TC2 (ESL) and TD3 (ESL):

Continuity exists.

Between Terminal TC3 (FSL) and TD2 (FSL):

Continuity exists.

If it might be open, replace the wire harness.

- (5) Ensure that no continuity exists between the cowl wire terminal and the body earth.

Between Terminal TC0 (SSL+) and Body Earth:

No continuity exists.

Between Terminal TC1 (VUPL) and Body Earth:

No continuity exists.

Between Terminal TC2 (ESL) and Body Earth:

No continuity exists.

Between Terminal TC3 (FSL) and Body Earth:

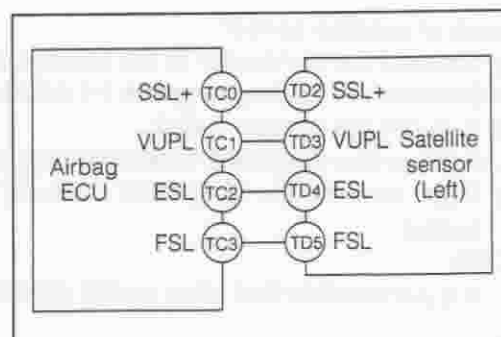
No continuity exists.

If it might be shorted, replace the wire harness.

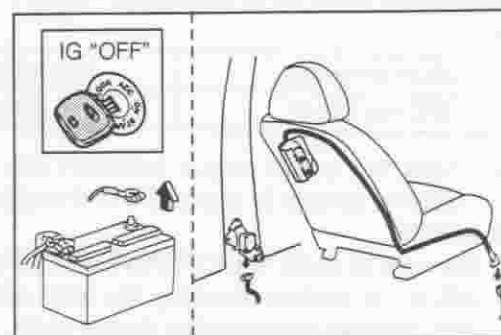
- (6) Check continuity between respective terminals of the vehicle side connector of the satellite sensor. Ensure that the harnesses are not shorted with each other.

Between Respective Terminals: NO continuity exists.

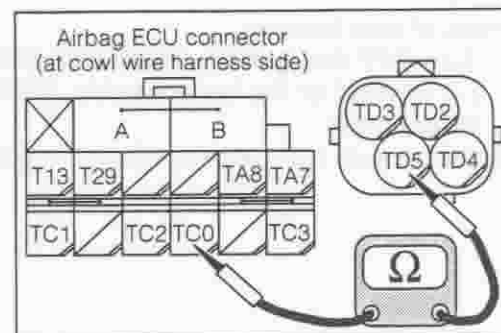
If it might be shorted, replace the wire harness.



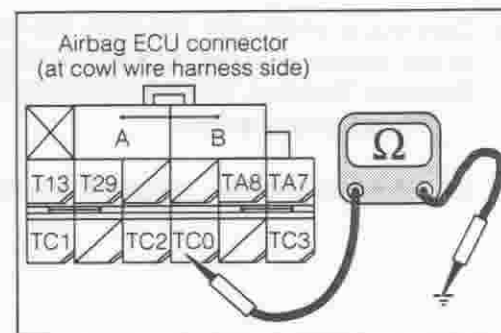
YAB00270



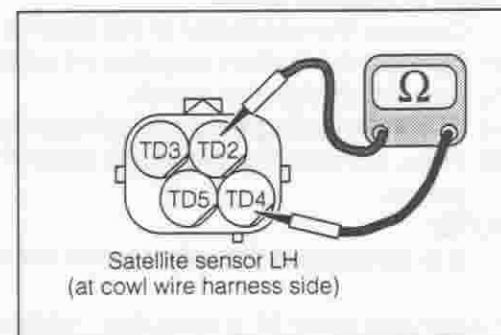
YAB00271



YAB00272



YAB00273



YAB00274

## AB-40

### 2. Check of satellite sensor

- (1) Connect the connector of the satellite sensor.
- (2) Connect the battery negative (-) cable.
- (3) Turn ON the ignition switch.
- (4) Perform the diagnosis canceling procedure.
- (5) Then, confirm the diagnosis code 33 will not be outputted.

#### NOTE:

- It is permissible that other codes are outputted.

If diagnosis code 33 is outputted, replace the satellite sensor.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0112   | Code No. 41           |

Cases where the squib circuit between the side airbag unit and the satellite sensor is shorted with the ground.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the side airbag components and observe every notice during work.

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor.

- (3) Connect a ohmmeter between the connector terminal at the vehicle wire harness side and body earth.  
Between Terminal TC4 (+) and Body Earth:  
No continuity exists.

If it might be shorted, replace the wire harness.

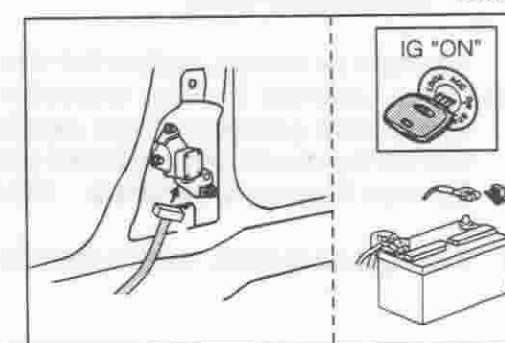
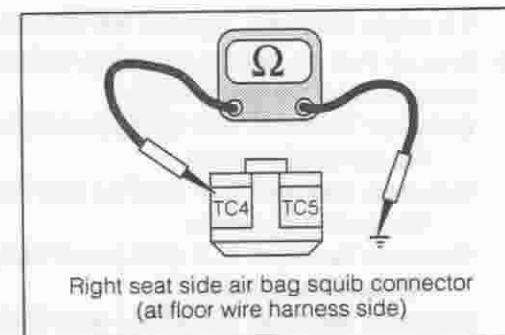
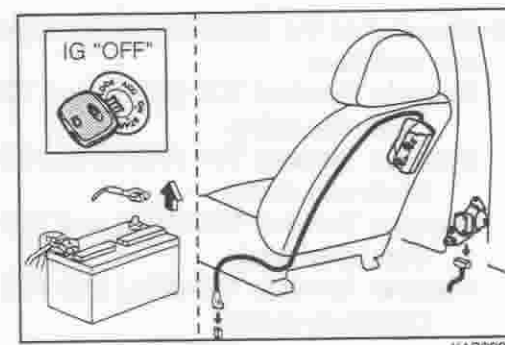
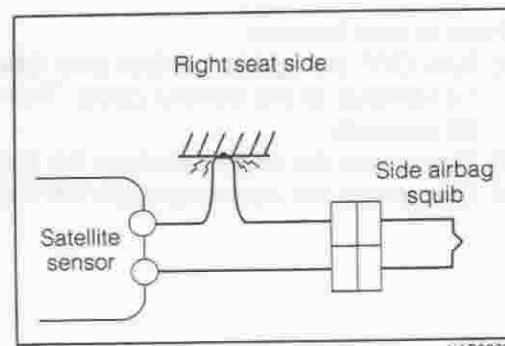
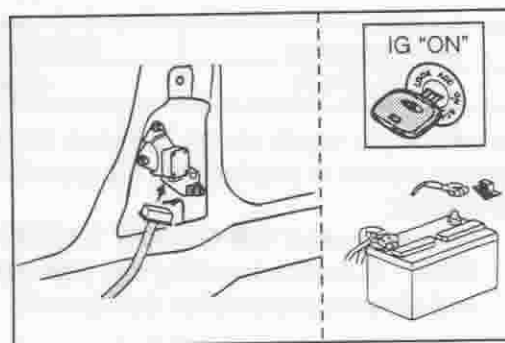
### 2. Check of satellite sensor

- (1) Connect the connector of the satellite sensor.
- (2) Connect the battery negative (-) cable.
- (3) Turn ON the ignition switch.
- (4) Perform the diagnosis canceling procedure.
- (5) Then, confirm the diagnosis code 41 will not be outputted.

#### NOTE:

- It is permissible that other codes are outputted.

If diagnosis code 41 is outputted, replace the satellite sensor.



### 3. Check of side airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Connect the connector between the side airbag unit and the floor wire No. 1.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Confirm the diagnosis code after the diagnosis code has been canceled.

If diagnosis code 41 is outputted, replace the side airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0113   | Code No. 42           |

Cases where the harness between the side airbag unit and the satellite sensor is shorted with the power supply.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the side airbag components and observe every notice during work.

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor.
- (3) Disconnect the connector from the side airbag unit.

- (4) Connect the battery negative (-) cable.
  - (5) Connect a voltmeter between the connector terminal at the vehicle wire harness side and body earth. Then, Turn ON the ignition switch.
- Between Terminal TC4 (+) and Body Earth:  
No voltage exists.

If it might be shorted, replace the wire harness.

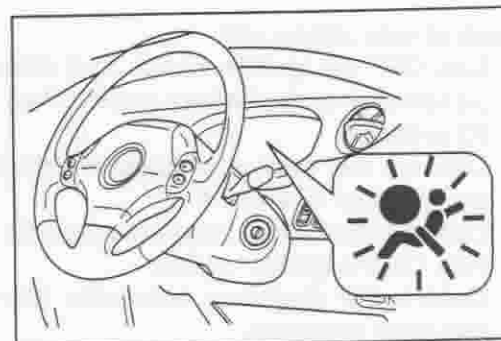
### 2. Check of satellite sensor

- (1) Turn OFF the ignition switch
- (2) Connect the connector of the satellite sensor.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Perform the diagnosis canceling procedure.
- (6) Then, confirm the diagnosis code 42 will not be outputted.

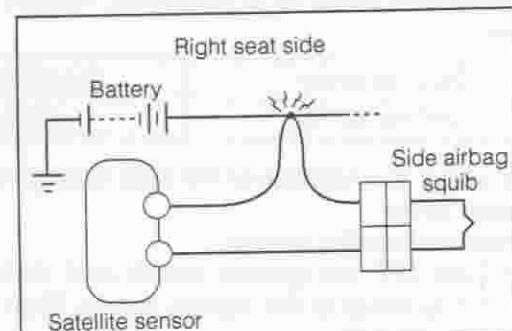
#### NOTE:

- It is permissible that other codes are outputted.

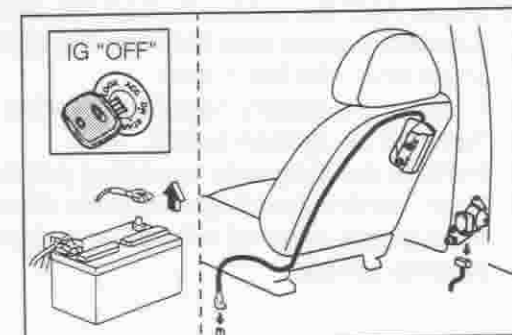
If diagnosis code 42 is outputted, replace the satellite sensor.



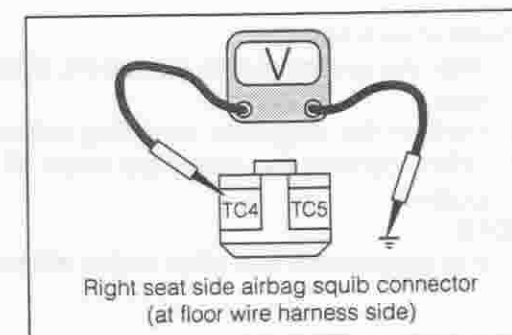
YAB00285



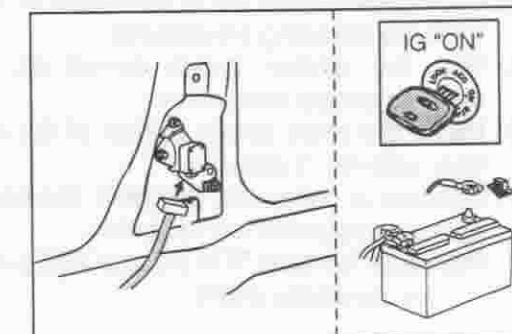
YAB00286



YAB00287



YAB00288



YAB00289

## AB-42

### 3. Check of side airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Connect the connector between the side airbag unit and the floor wire No. 1.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Confirm the diagnosis code after the diagnosis code has been canceled.

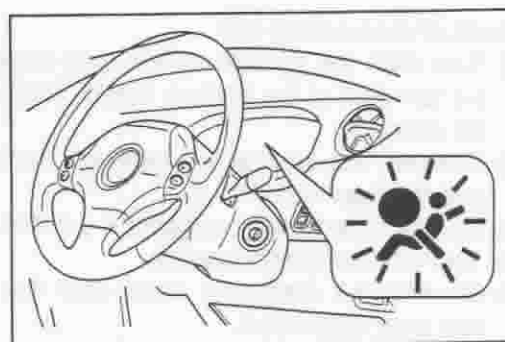
If diagnosis code 42 is outputted, replace the side airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0110   | Code No. 43           |

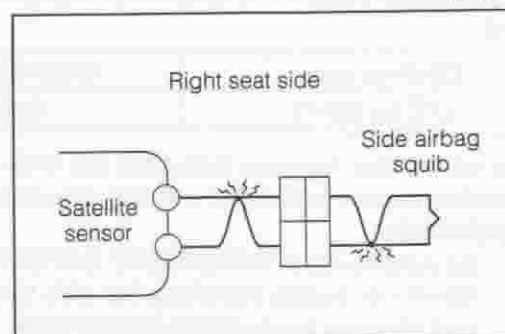
Cases where the harness of the side airbag squib are shorted with each other.

#### 1. Check of satellite sensor

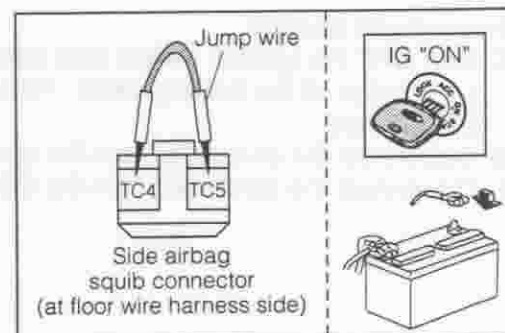
- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the side airbag unit.
- (3) Connect a jump wire between the connector terminals at the floor wire No. 1 side.
- (4) Connect the battery negative (-) cable.
- (5) Turn ON the ignition switch.
- (6) Perform the diagnosis canceling procedure.
- (7) Then, confirm the diagnosis code 43 will be outputted. If diagnosis code 43 will not be outputted, replace the satellite sensor.



YAB00310



YAB00311



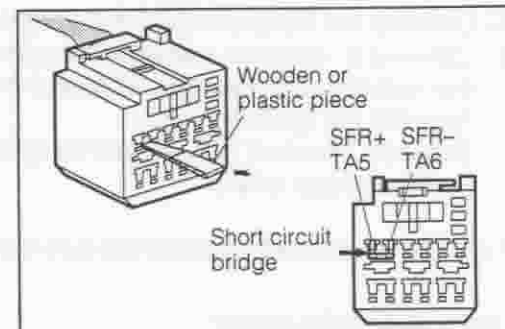
YAB00312

#### 2. Check of wire harness

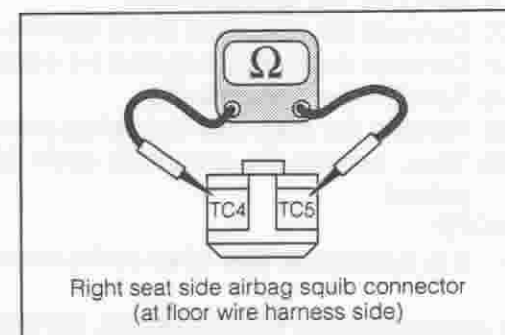
- (1) With the ignition switch turned off, disconnect the jump wire.
- (2) Perform the diagnosis canceling procedure.
- (3) Then, confirm the diagnosis code 43 will not be outputted.

#### NOTE:

- It is permissible that other codes are outputted.



YAB00313



YAB00314

- (4) If diagnosis code 43 is outputted at Step 2. (3), perform the following procedures.
- (5) With the Ignition switch turned off, disconnect the satellite sensor connector.
- (6) Raise the short circuit bridge of the connector at the floor wire No. 1 side.
- (7) connect a ohmmeter between the connector terminal at the vehicle wire harness side.

**Between Terminal TC4 (+) and TC5 (-):**

**No continuity exists.**

If it might be shorted, replace the wire harness.

### 3. Check of side airbag unit

- (1) If the diagnosis code is not outputted at Step 2. (3), perform the following procedures.
  - (2) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
  - (3) Connect the connector of the side airbag unit.
  - (4) Connect the battery negative (-) cable.
  - (5) Turn ON the ignition switch. Confirm the diagnosis code after the diagnosis code has been erased.
- If diagnosis code 43 is outputted, replace the side airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0111   | Code No. 44           |

Cases where open wire is present at the harness between the side airbag unit and the satellite sensor.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the side airbag components and observe every notice during work.

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor and the side airbag unit.

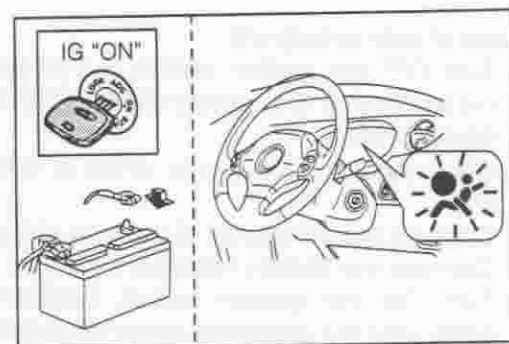
- (3) Connect a ohmmeter between the connector terminal at the vehicle wire harness side.  
Between Terminal TC4 (+) and TC5 (-):  
Continuity exists.

If it might have open wire, replace the wire harness.

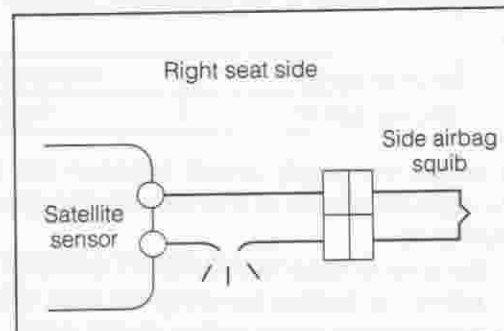
### 2. Check of satellite sensor

- (1) Connect a jump wire between the connector terminals at the floor wire No. 1 side.
- (2) Connect the connector of the satellite sensor.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Perform the diagnosis canceling procedure.
- (6) Then, confirm the diagnosis code 44 will not be outputted.

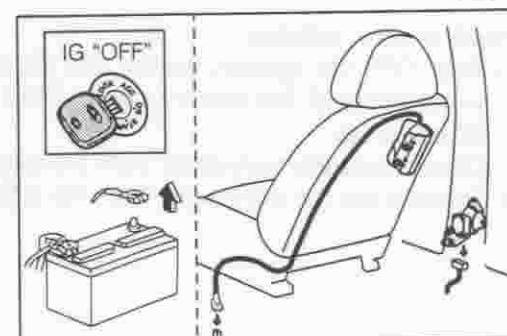
If diagnosis code 44 is outputted, replace the satellite sensor.



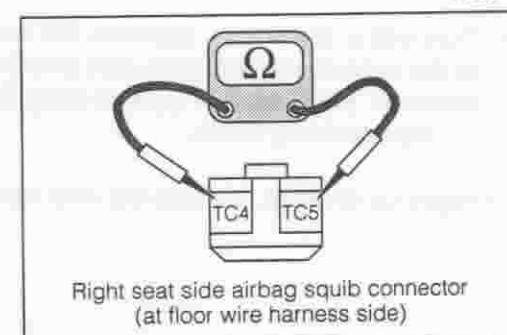
YAB00315



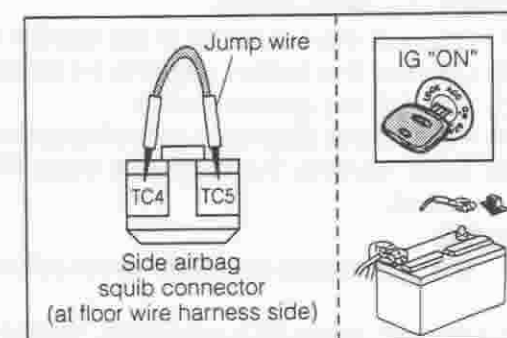
YAB00316



YAB00317



YAB00318



YAB00319

## AB-44

### 3. Check of side airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the jump wire which is applied at Step 2. (1).
- (3) Connect the connector of the side airbag unit.
- (4) Connect the battery negative (-) cable.
- (5) Turn ON the ignition switch. Confirm the diagnosis code after the diagnosis code has been erased.

If diagnosis code is 44 outputted, replace the side airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0117   | Code No. 45           |

Cases where the squib circuit between the side airbag unit and the satellite sensor is shorted with the ground.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the side airbag components and observe every notice during work.

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor.
- (3) Disconnect the connector from the side airbag unit.

- (4) Connect a ohmmeter between the connector terminal at the vehicle wire harness side and body earth.  
Between Terminal TC6 (+) and Body Earth:  
No continuity exists.

If it might be shorted, replace the wire harness.

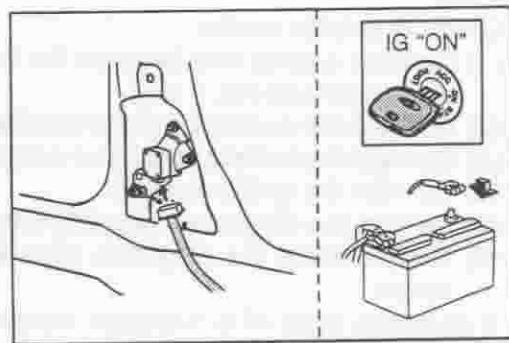
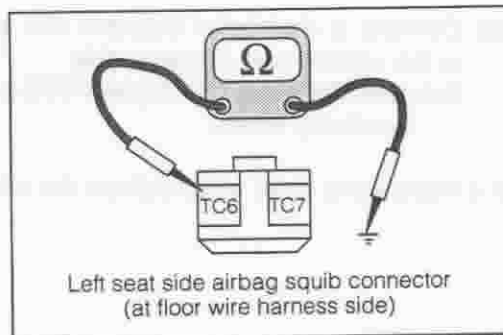
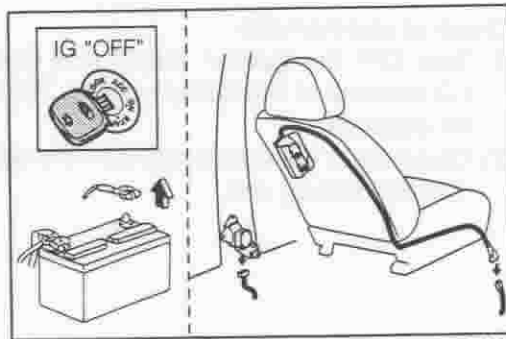
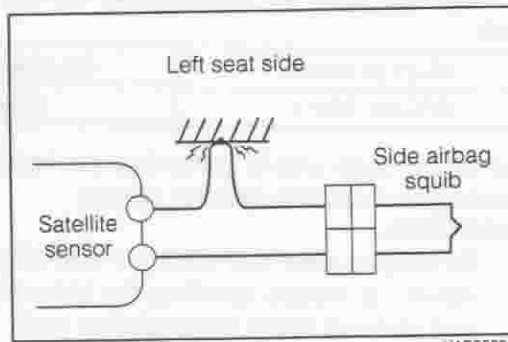
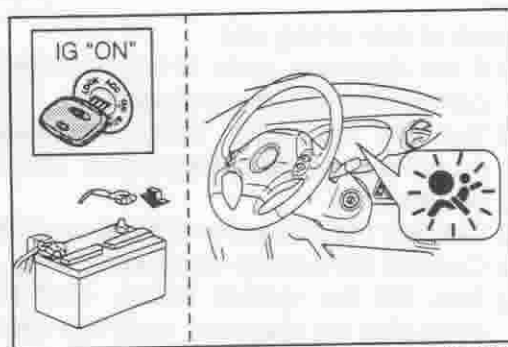
### 2. Check of satellite sensor

- (1) Connect the connector of the satellite sensor.
- (2) Connect the battery negative (-) cable.
- (3) Turn ON the ignition switch.
- (4) Perform the diagnosis canceling procedure.
- (5) Then, confirm the diagnosis code 45 will not be outputted.

#### NOTE:

- It is permissible that other codes are outputted.

If diagnosis code 45 is outputted, replace the satellite sensor.



### 3. Check of side airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Connect the connector between the side airbag unit and the floor wire No. 1.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Confirm the diagnosis code after the diagnosis code has been canceled.

If diagnosis code 45 is outputted, replace the side airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0118   | Code No. 46           |

Cases where the harness between the side airbag unit and the satellite sensor is shorted with the power supply.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the side airbag components and observe every notice during work.

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor.
- (3) Disconnect the connector from the side airbag unit.

- (4) Connect the battery negative (-) cable.
- (5) Connect a voltmeter between the connector terminal at the vehicle wire harness side and body earth. Then, Turn ON the ignition switch.

Between Terminal TC6 (+) and Body Earth:  
No voltage exists.

If it might be shorted, replace the wire harness.

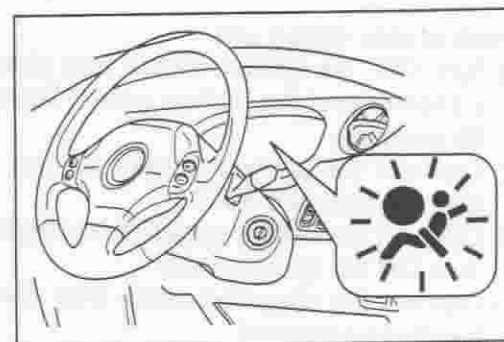
### 2. Check of satellite sensor

- (1) Turn OFF the ignition switch
- (2) Connect the connector of the satellite sensor.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Perform the diagnosis canceling procedure.
- (6) Then, confirm the diagnosis code 46 will not be outputted.

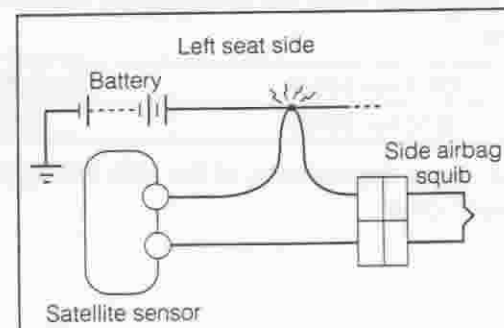
#### NOTE:

- It is permissible that other codes are outputted.

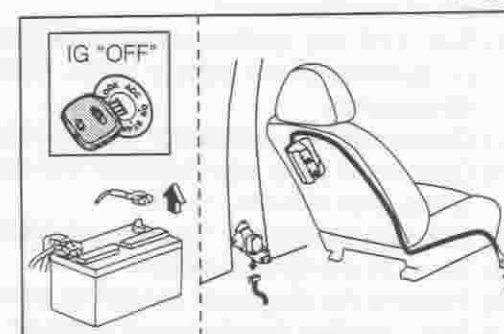
If diagnosis code 46 is outputted, replace the satellite sensor.



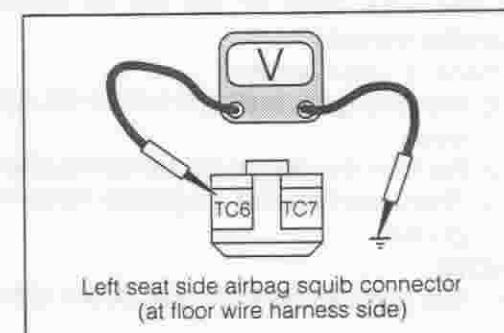
YAB00330



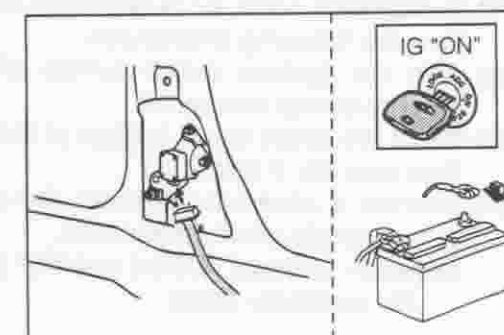
YAB00331



YAB00332



YAB00333



YAB00334

## AB-46

### 3. Check of side airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Connect the connector between the side airbag unit and the floor wire No. 1.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Confirm the diagnosis code after the diagnosis code has been canceled.

If diagnosis code 46 is outputted, replace the side airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0115   | Code No. 47           |

Cases where the harness of the side airbag squib are shorted with each other.

### 1. Check of satellite sensor

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
  - (2) Disconnect the connector from the side airbag unit.
  - (3) Connect a jump wire between the connector terminals at the floor wire No. 1 side.
  - (4) Connect the battery negative (-) cable.
  - (5) Turn ON the ignition switch.
  - (6) Perform the diagnosis canceling procedure.
  - (7) Then, confirm the diagnosis code 47 will be outputted.
- If diagnosis code 47 will not be outputted, replace the satellite sensor.

### 2. Check of wire harness

- (1) With the ignition switch turned off, disconnect the jump wire.
- (2) Perform the diagnosis canceling procedure.
- (3) Then, confirm the diagnosis code 47 will not be outputted.

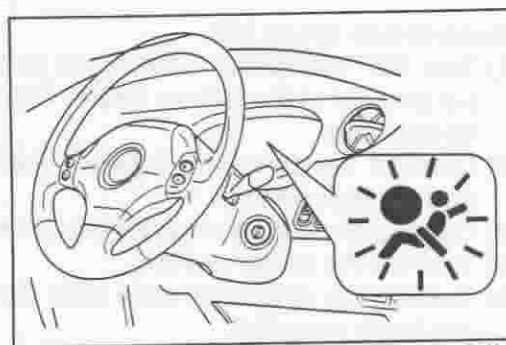
#### NOTE:

- It is permissible that other codes are outputted.

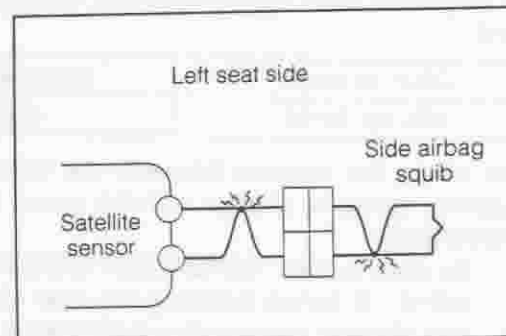
- (4) If diagnosis code 47 is outputted at Step 2. (3), perform the following procedures.
- (5) With the ignition switch turned off, disconnect the satellite sensor connector.
- (6) Raise the short circuit bridge of the connector at the floor wire No. 1 side.
- (7) connect a ohmmeter between the connector terminal at the vehicle wire harness side.

Between Terminal TC6 (+) and TC7 (-):  
No continuity exists.

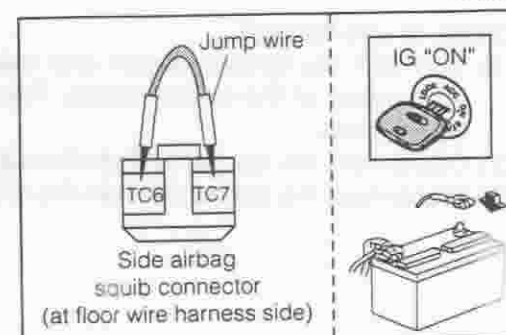
If it might be shorted, replace the wire harness.



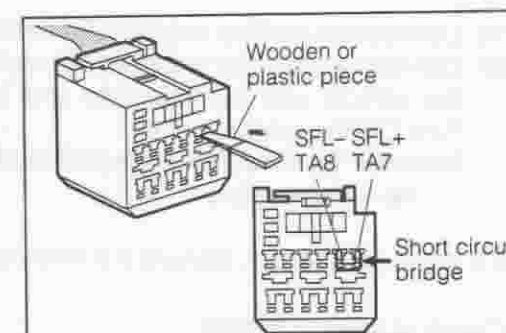
YAB00340



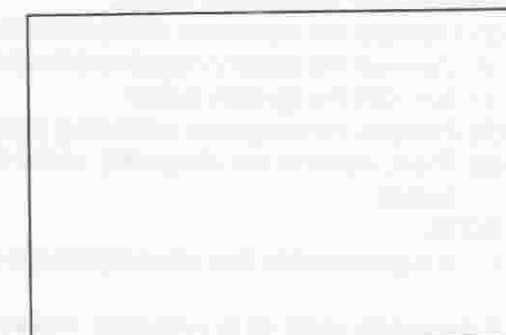
YAB00341



YAB00342



YAB00343



YAB00344

### 3. Check of side airbag unit

- (1) If the diagnosis code is not outputted at Step 2. (3), perform the following procedures.
- (2) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (3) Connect the connector of the side airbag unit.
- (4) Connect the battery negative (-) cable.
- (5) Turn ON the ignition switch. Confirm the diagnosis code after the diagnosis code has been erased.

If diagnosis code 47 is outputted, replace the side airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0116   | Code No. 48           |

Cases where open wire is present at the harness between the side airbag unit and the satellite sensor.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 7, before handling the side airbag components and observe every notice during work.

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor and the side airbag unit.

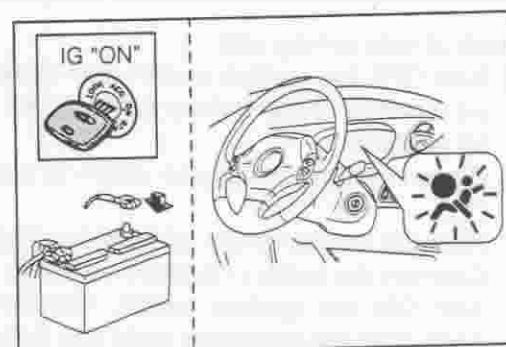
- (3) Connect a ohmmeter between the connector terminal at the vehicle wire harness side.  
Between Terminal TC6 (+) and TC7 (-):  
Continuity exists.

If it might have open wire, replace the wire harness.

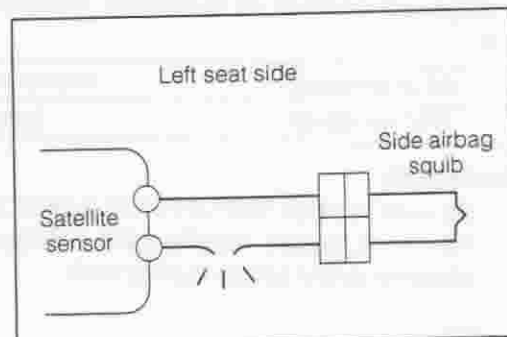
### 2. Check of satellite sensor

- (1) Connect a jump wire between the connector terminals at the floor wire No. 1 side.
- (2) Connect the connector of the satellite sensor.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Perform the diagnosis canceling procedure.
- (6) Then, confirm the diagnosis code 48 will not be outputted.

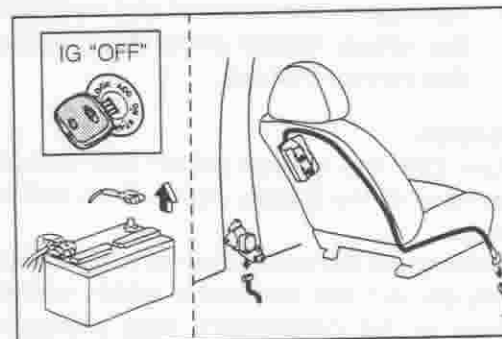
If diagnosis code 48 is outputted, replace the satellite sensor.



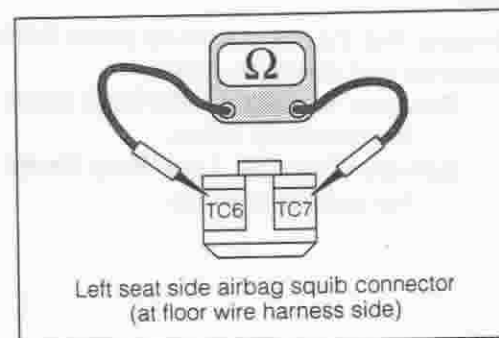
YAB00345



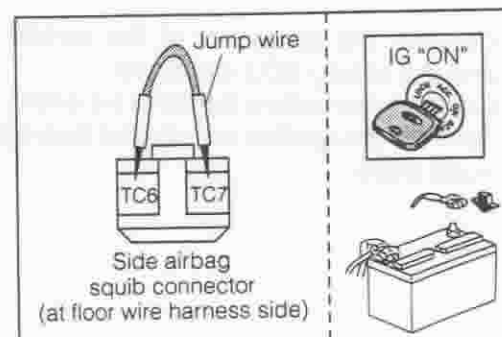
YAB00346



YAB00347



YAB00348



YAB00349

## AB-48

### 3. Check of side airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
  - (2) Disconnect the jump wire which is applied at Step 2. (1).
  - (3) Connect the connector of the side airbag unit.
  - (4) Connect the battery negative (-) cable.
  - (5) Turn ON the ignition switch. Confirm the diagnosis code after the diagnosis code has been erased.
- If diagnosis code is 48 outputted, replace the side airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0107   | Code No. 51           |

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

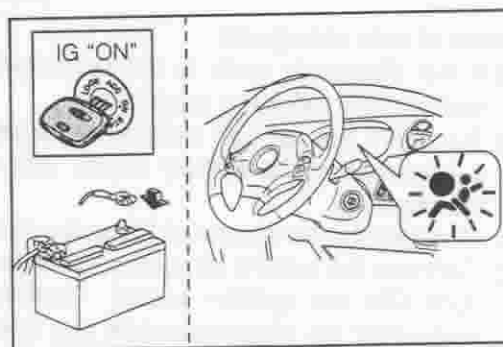
#### NOTE:

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

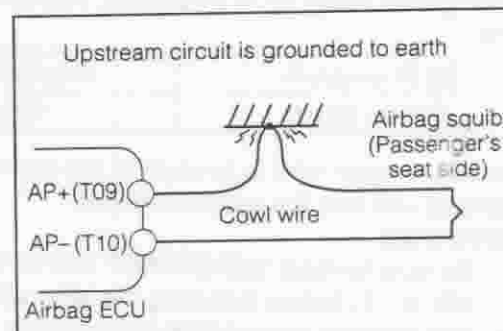
### Inspection

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Disconnect the connector from the airbag ECU.
3. Disconnect the connector which connects the wire harness of the passenger's side airbag unit and the cowl wire.
4. Ensure that the no continuity exists between the cowl wire terminal and the body earth.
  - Between Terminal H and Body Earth:  
No continuity exists.
  - Between Terminal J and Body Earth:  
No continuity exists.

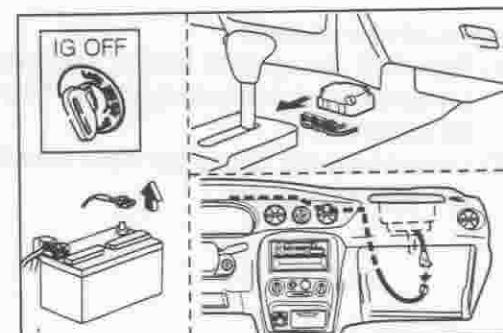
5. Connect the connector at the vehicle wire harness side and the airbag ECU connector.
6. Connect the battery negative (-) cable.
7. Turn ON the ignition switch and take a reading of the diagnosis code.



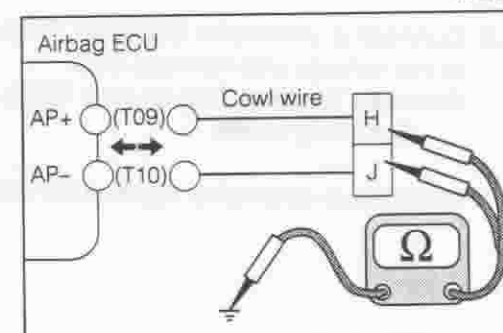
YAB00350



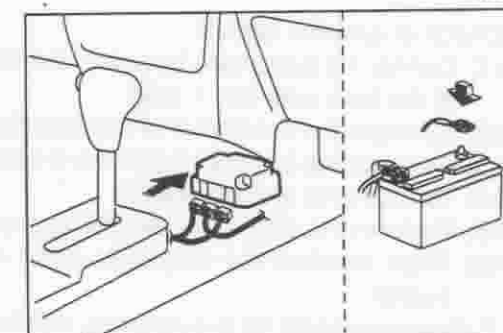
YAB00351



YAB00352



YAB00353



YAB00354

8. After the inspection and installation, cancel the diagnosis code and confirm that the code 51 is not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0108   | Code No. 52           |

**WARNING:**

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.
- When this code is indicated, the airbag system may operate as soon as the safing sensor at the ECU is turned on. Hence, if this code is indicated, immediately turn off the ignition key switch and proceed to the following steps.

**Explosion-preventive measure**

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Disconnect the connector from the airbag ECU.
3. Disconnect the connector which connects the wire harness of the passenger's side airbag unit and the cowl wire.

**Inspection**

1. Connect the battery negative (-) cable.
2. Connect the voltmeter to the vehicle wire harness side terminals. Then, turn on the ignition switch.

Between Terminal T09 (AP+) and T01 (IG1):

No voltage exists.

Between Terminal T10 (AP-) and T01 (IG1):

No voltage exists.

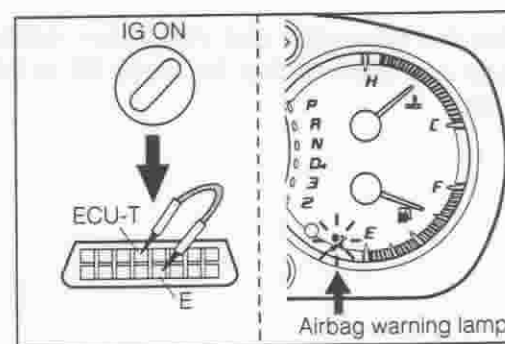
3. Turn OFF the ignition switch.
4. Connect the connector at the vehicle wire harness side and the airbag ECU connector.
5. Connect the voltmeter between the cowl wire terminal and body earth.
6. Turn ON the ignition switch. Ensure that no voltage exists between the terminal and body earth.

Between Terminal H and Body Earth:

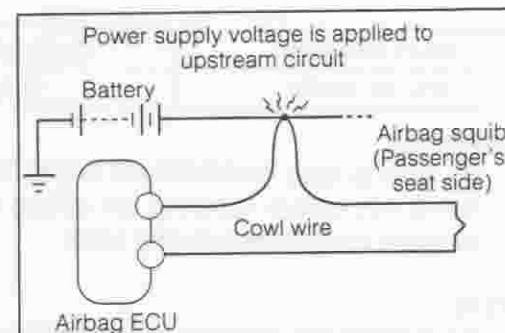
No voltage exists.

Between Terminal J and Body Earth:

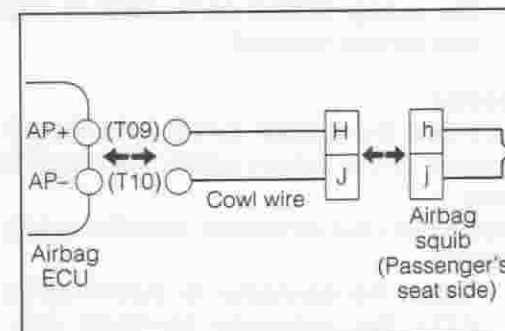
No voltage exists.



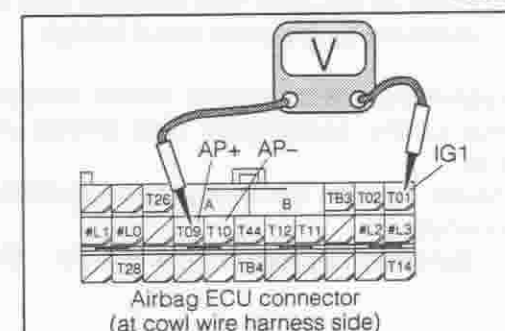
YAB00355



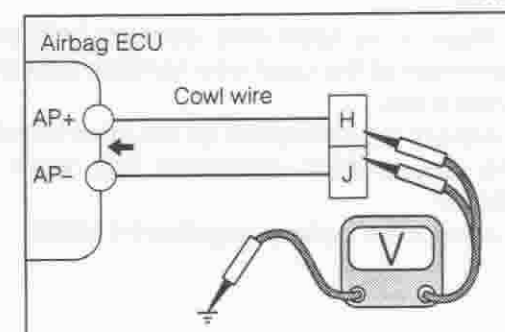
YAB00356



YAB00357



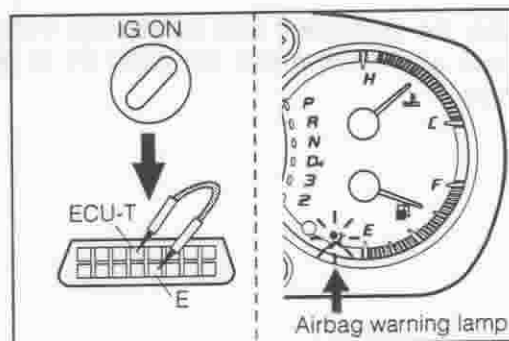
YAB00358



YAB00359

## AB-50

- After the inspection and installation, cancel the diagnosis code and confirm that the code 52 is not outputted any more.



|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0106   | Code No. 54           |

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

### NOTE:

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

### Inspection

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector from the airbag ECU.

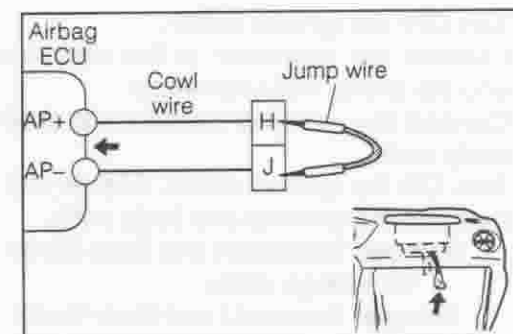
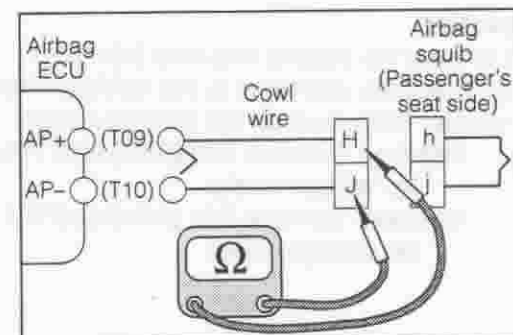
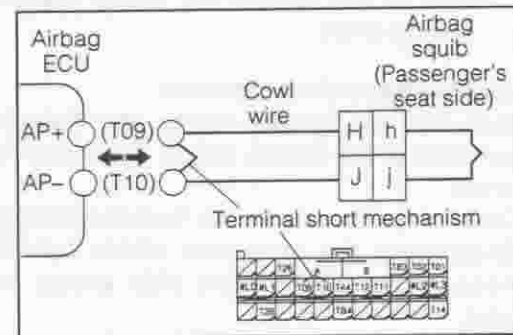
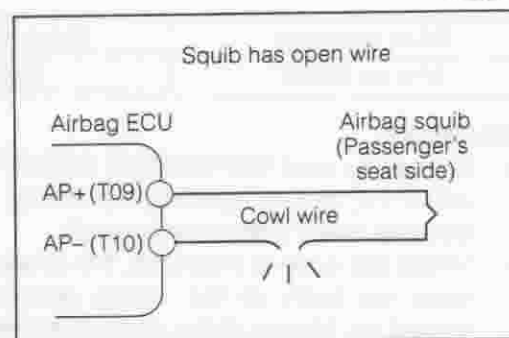
### NOTE:

- When the connector is disconnected from the airbag ECU, the connector terminals AP+ (T09) and AP- (T10) at the cowl wire harness side are shorted automatically by the short circuit bridge.

- Disconnect the connector which connects the wire harness of the passenger's side airbag unit and the cowl wire.
- Ensure that the continuity exists between the respective terminals.

Between Terminal H (+) and J (-): Continuity exists.

- If there is no open wire, connect both ends of the airbag terminals at the cowl wire harness side with a jump wire to short them.
- Connect the connector at the cowl wire harness side and the airbag ECU connector that were disconnected at Step 2.
- Connect the battery negative (-) cable.



8. Turn ON the ignition switch and take a reading of the diagnosis code.

**CAUTION:**

- If the code 53 (short circuit of squib circuit) is indicated, it proves indirectly that there is open wire in the squib of the airbag unit. Therefore, replace the airbag assembly.

9. After the inspection and installation, cancel the diagnosis code and confirm that the code 53 and 54 are not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0105   | Code No. 53           |

**WARNING:**

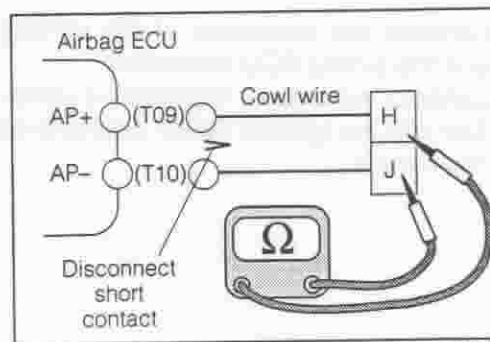
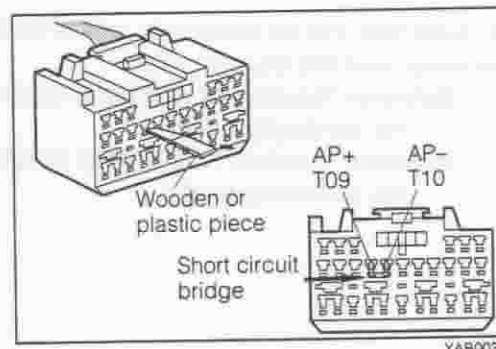
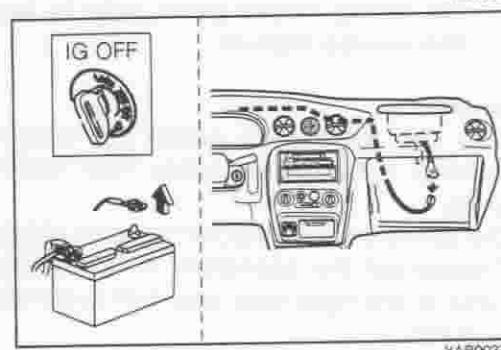
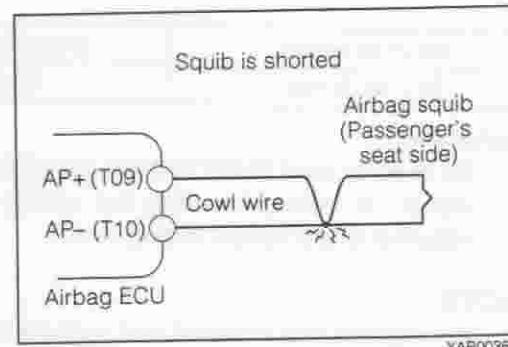
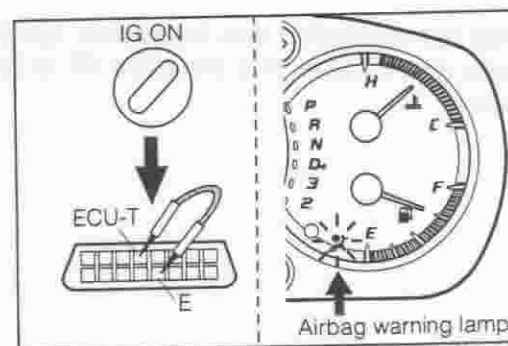
- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

**NOTE:**

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

**Inspection**

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector which connects the wire harness of the passenger's side airbag unit and the cowl wire.
- Remove the computer cover. Disconnect the connector at the vehicle wire harness side from the airbag ECU.
- Using a wooden or plastic piece, raise the short circuit bridge at the sections T09 (AP+) and T10 (AP-) of the connector at the vehicle wire harness side which was removed from the ECU. In this way, disconnect the shorted contact points.
- Connect the ohmmeter to the cowl wire terminal. Check to see if any short circuit exists from the airbag ECU to the passenger's side airbag unit via the wire harness.  
Between Terminal H and J: No continuity exists.



## AB-52

6. After the inspection and installation, cancel the diagnosis code and confirm that the code 53 is not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0132   | Code No. 61           |

### WARNING:

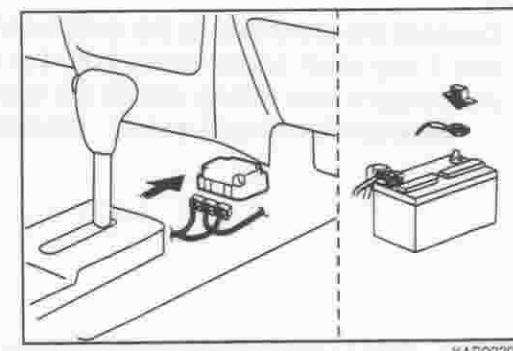
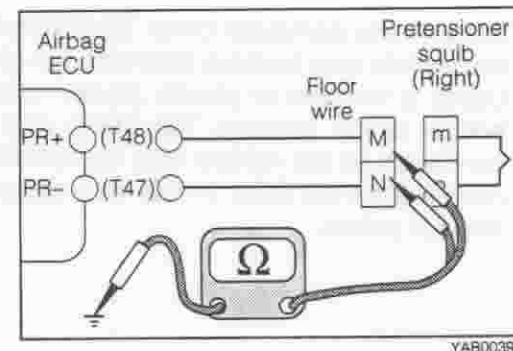
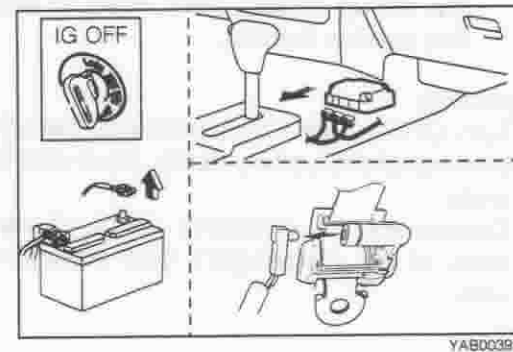
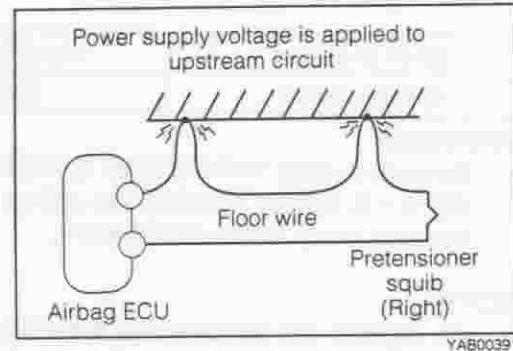
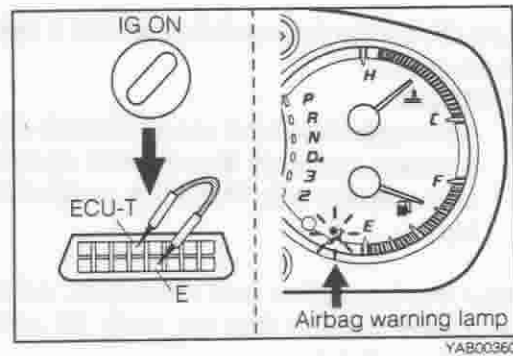
- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

### NOTE:

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

### Inspection

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Disconnect the connector from the airbag ECU.
3. Disconnect the connector which connects the wire harness of the right side seat belt pretensioner and the floor wire No. 1.
4. Ensure that the no continuity exists between the floor wire terminal and the body earth.
  - Between Terminal M and Body Earth:  
No continuity exists.
  - Between Terminal N and Body Earth:  
No continuity exists.
5. Connect the connector at the vehicle wire harness side and the airbag ECU connector.
6. Connect the battery negative (-) cable.
7. Turn ON the ignition switch and take a reading of the diagnosis code.



8. After the inspection and installation, cancel the diagnosis code and confirm that the code 61 is not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0133   | Code No. 62           |

**WARNING:**

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.
- When this code is indicated, the seat belt pretensioner may operate as soon as the safing sensor at the ECU is turned on. Hence, if this code is indicated, immediately turn off the ignition key switch and proceed to the following steps.

**Explosion-preventive measure**

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Disconnect the connector from the airbag ECU.
3. Disconnect the connector which connects the wire harness of the right side seat belt pretensioner and the floor wire No. 1.

**Inspection**

1. Connect the battery negative (-) cable.

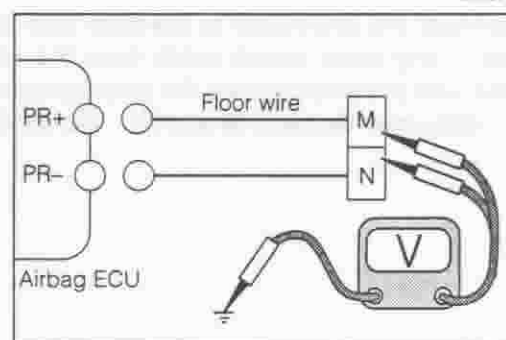
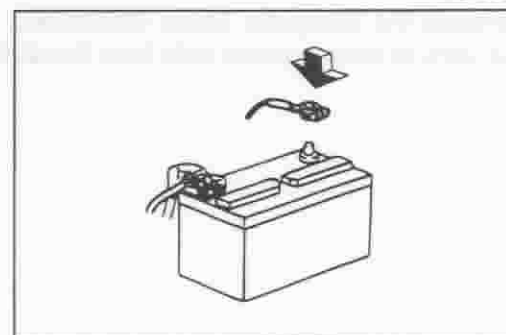
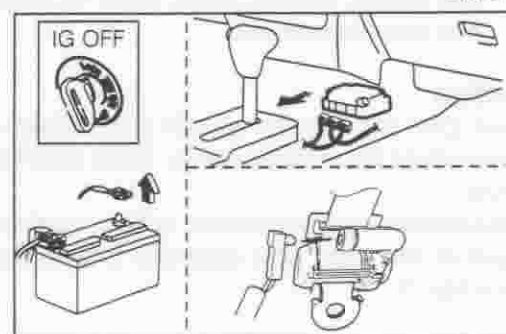
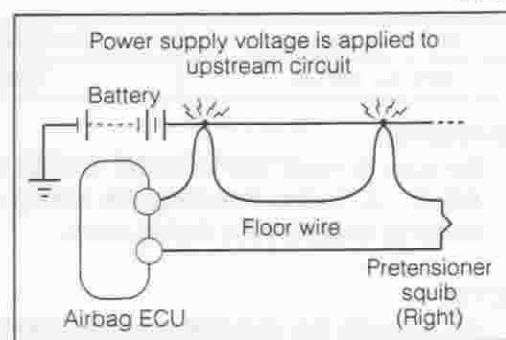
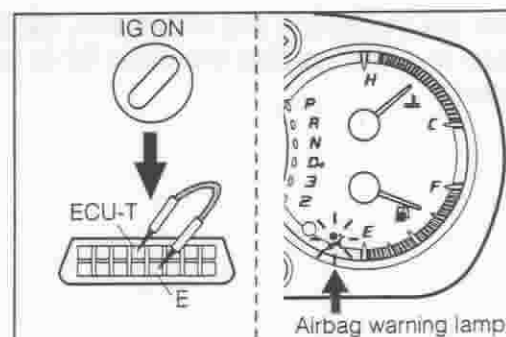
2. Turn ON the ignition switch. Ensure that no voltage exists between the terminal and body earth.

Between Terminal M and Body Earth:

No voltage exists.

Between Terminal N and Body Earth:

No voltage exists.



## AB-54

- After the inspection and installation, cancel the diagnosis code and confirm that the code 62 is not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0130   | Code No. 63           |

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

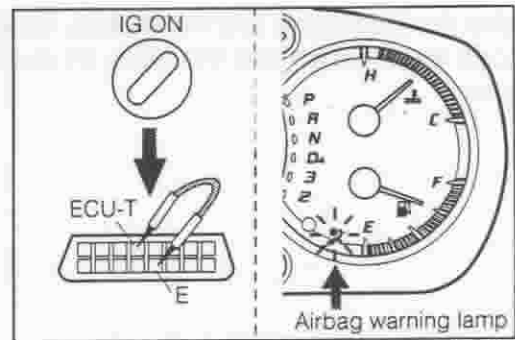
### NOTE:

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

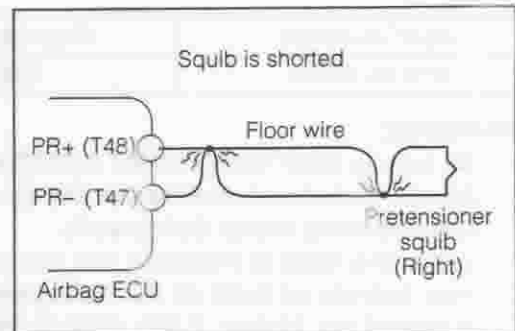
### Inspection

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector which connects the wire harness of the right side seat belt pretensioner and the floor wire No. 1.
- Remove the computer cover. Disconnect the connector at the vehicle wire harness side from the airbag ECU.
- Connect the ohmmeter to the floor wire terminal. Check to see if any short circuit exists from the airbag ECU to the seat belt pretensioner via the wire harness.

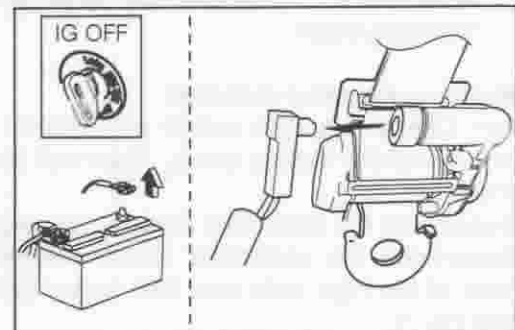
Between Terminal M and N: No continuity exists.



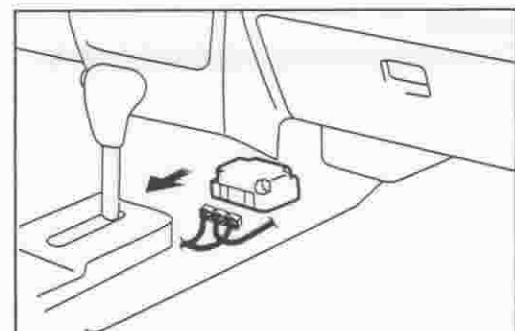
YAB00410



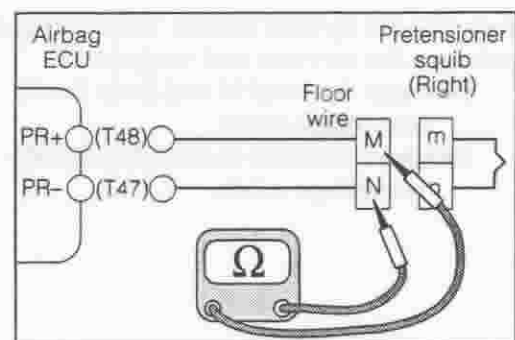
YAB00411



YAB00412



YAB00413



YAB00414

- After the inspection and installation, cancel the diagnosis code and confirm that the code 63 is not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0131   | Code No. 64           |

**WARNING:**

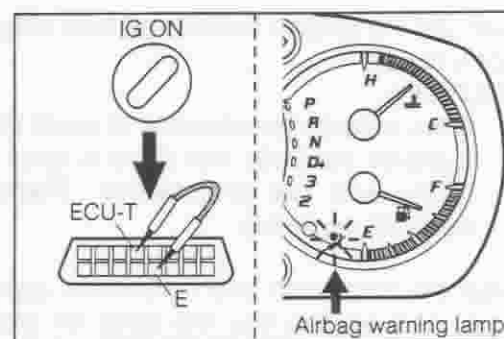
- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

**NOTE:**

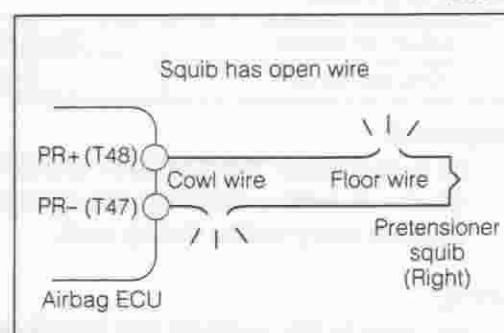
- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

**Inspection**

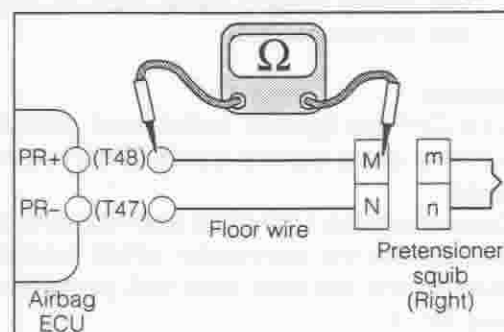
- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector from the airbag ECU.
- Disconnect the connector which connects the wire harness of the right side seat belt pretensioner and the floor wire No. 1.
- Ensure that the continuity exists between the respective terminals.
  - Between Terminal T48 (PR+) and M (+): Continuity exists.
  - Between Terminal T47 (PR-) and N (-): Continuity exists.
- If there is no open wire, connect both ends of the pretensioner terminals at the floor wire side with a jump wire to short them.
- Connect the connector at the cowl wire harness side and the airbag ECU connector that were disconnected at Step 2.
- Connect the battery negative (-) cable.



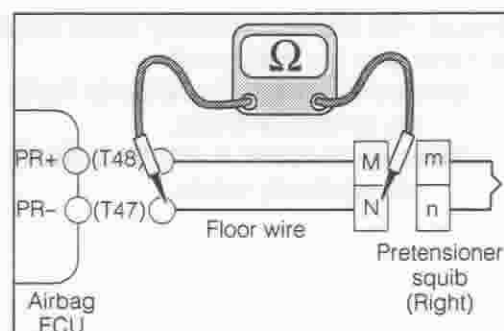
YAB00415



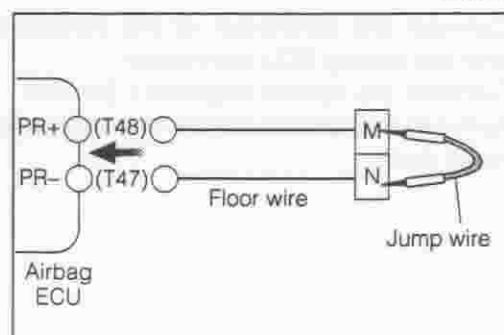
YAB00416



YAB00417



YAB00418



YAB00419

## AB-56

8. Turn ON the ignition switch and take a reading of the diagnosis code.

### CAUTION:

- If the code 63 (short circuit of squib circuit) is indicated, it proves indirectly that there is open wire in the squib of the seat belt pretensioner. Therefore, replace the seat belt assembly.

9. After the inspection and installation, cancel the diagnosis code and confirm that the code 64 and 63 are not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0137   | Code No. 71           |

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

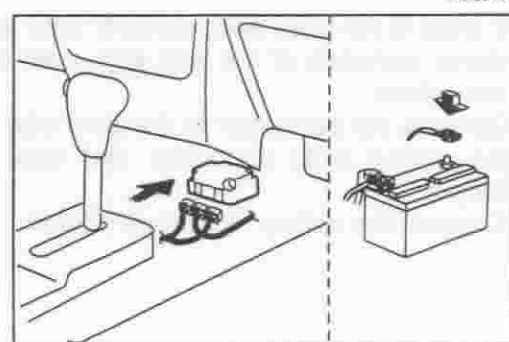
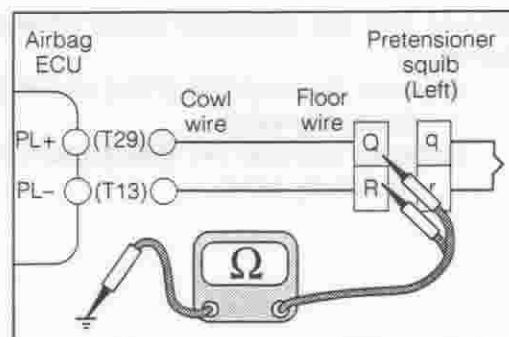
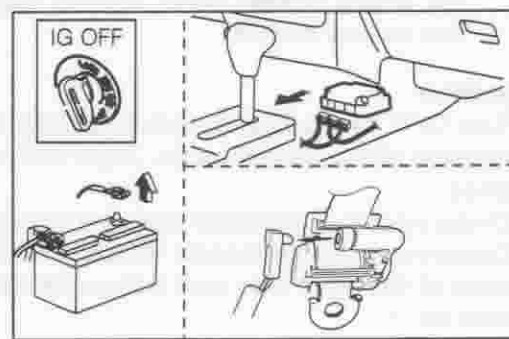
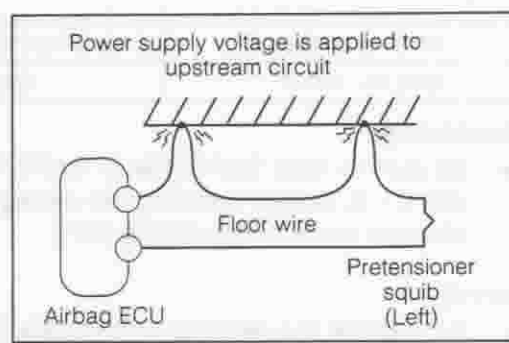
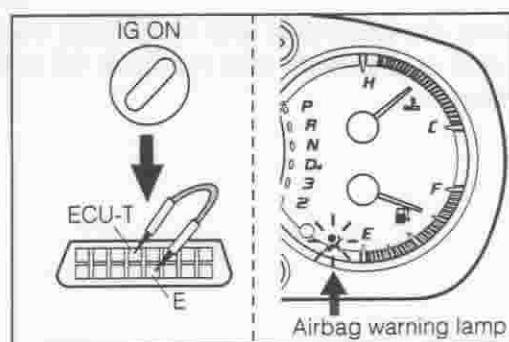
### NOTE:

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

### Inspection

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Disconnect the connector from the airbag ECU.
3. Disconnect the connector which connects the wire harness of the left side seat belt pretensioner and the floor wire No. 1.
4. Ensure that the no continuity exists between the floor wire terminal and the body earth.
  - Between Terminal Q and Body Earth:  
No continuity exists.
  - Between Terminal R and Body Earth:  
No continuity exists.

5. Connect the connector at the vehicle wire harness side and the airbag ECU connector.
6. Connect the battery negative (-) cable.
7. Turn ON the ignition switch and take a reading of the diagnosis code.



8. After the inspection and installation, cancel the diagnosis code and confirm that the code 71 is not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0138   | Code No. 72           |

**WARNING:**

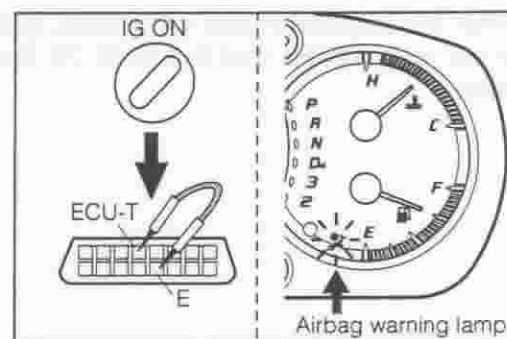
- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.
- When this code is indicated, the seat belt pretensioner may operate as soon as the safing sensor at the ECU is turned on. Hence, if this code is indicated, immediately turn off the ignition key switch and proceed to the following steps.

**Explosion-preventive measure**

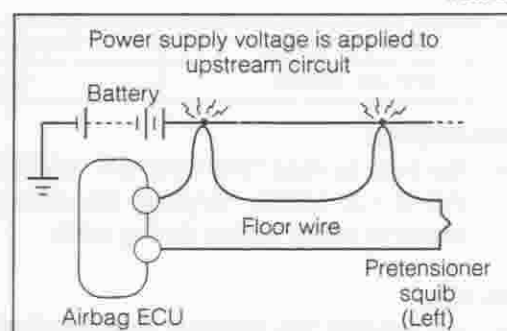
1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Disconnect the connector from the airbag ECU.
3. Disconnect the connector which connects the wire harness of the left side seat belt pretensioner and the floor wire No. 1.

**Inspection**

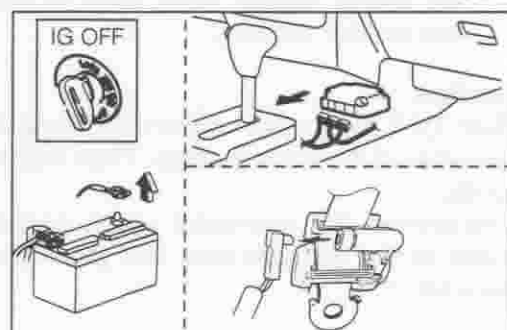
1. Connect the battery negative (-) cable.
2. Turn ON the ignition switch. Ensure that no voltage exists between the terminal and body earth.
  - Between Terminal Q and Body Earth:  
No voltage exists.
  - Between Terminal R and Body Earth:  
No voltage exists.



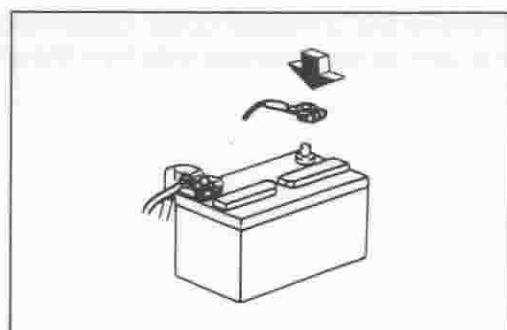
YAB00435



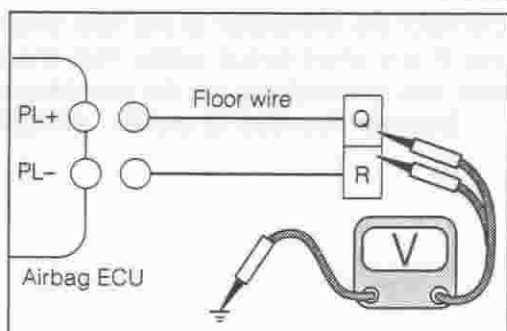
YAB00436



YAB00437



YAB00438



YAB00439

## AB-58

- After the inspection and installation, cancel the diagnosis code and confirm that the code 72 is not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0135   | Code No. 73           |

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

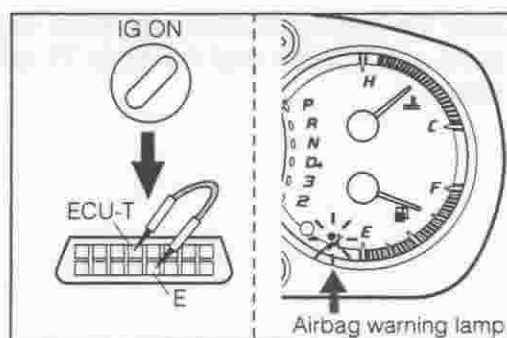
### NOTE:

- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

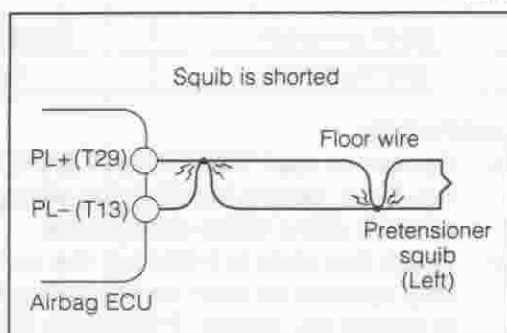
### Inspection

- Turn OFF the Ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector which connects the wire harness of the left side seat belt pretensioner and the floor wire No. 1.
- Remove the computer cover. Disconnect the connector at the vehicle wire harness side from the airbag ECU.
- Connect the ohmmeter to the floor wire terminal. Check to see if any short circuit exists from the airbag ECU to the seat belt pretensioner via the wire harness.

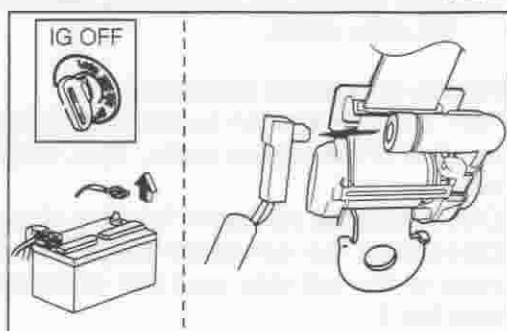
Between Terminal Q and R: No continuity exists.



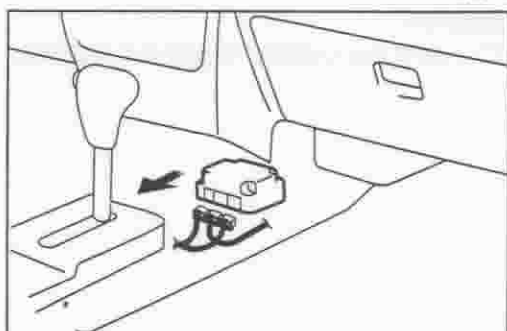
YAB00440



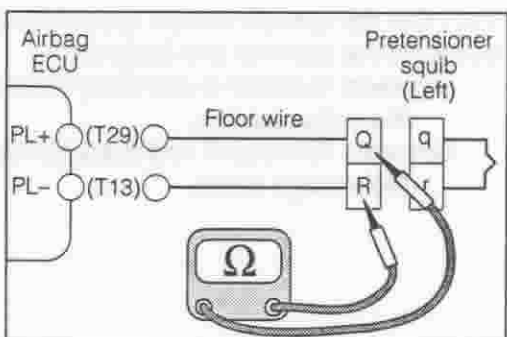
YAB00441



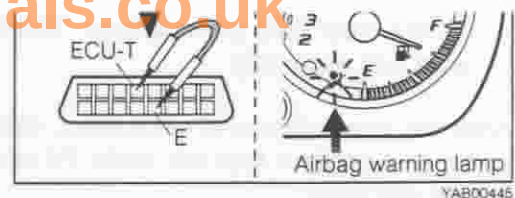
YAB00442



YAB00443



YAB00444



YAB00445

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B0136   | Code No. 74           |

**WARNING:**

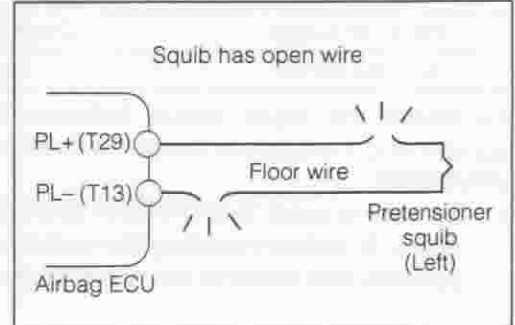
- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

**NOTE:**

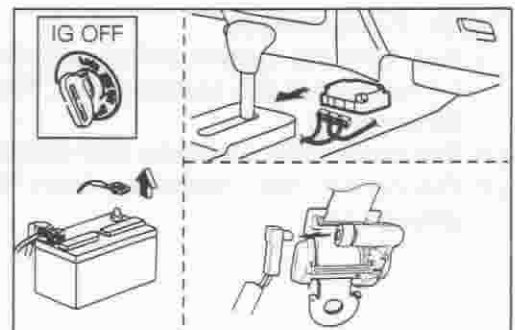
- As regards the removal and installation procedures for the airbag related parts, refer to page AB-11 - 25 of this service manual.

**Inspection**

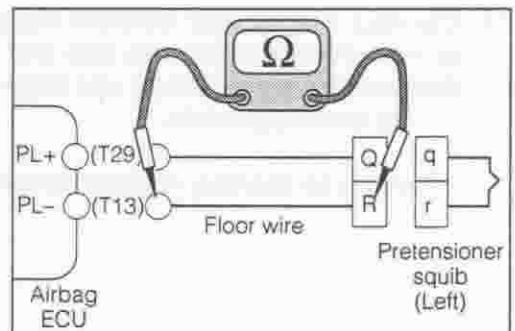
- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector from the airbag ECU.
- Disconnect the connector which connects the wire harness of the left side seat belt pretensioner and the floor wire No. 1.
- Ensure that the continuity exists between the respective terminals.
  - Between Terminal T29 (PL+) and Q (+): Continuity exists.
  - Between Terminal T13 (PL-) and R (-): Continuity exists.
- If there is no open wire, connect both ends of the pretensioner terminals at the floor wire side with a jump wire to short them.
- Connect the connector at the cowl wire harness side and the airbag ECU connector that were disconnected at Step 2.
- Connect the battery negative (-) cable.



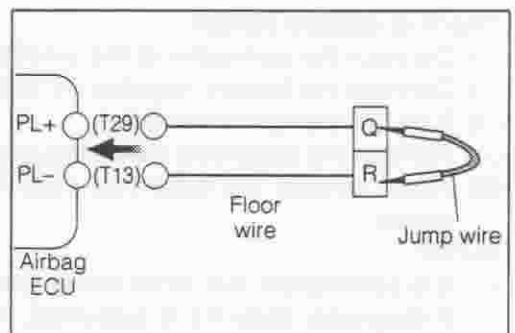
YAB00446



YAB00447



YAB00448



YAB00449

## AB-60

8. Turn ON the ignition switch and take a reading of the diagnosis code.

### CAUTION:

- If the code 73 (short circuit of squib circuit) is indicated, it proves indirectly that there is open wire in the squib of the seat belt pretensioner. Therefore, replace the seat belt assembly.

9. After the inspection and installation, cancel the diagnosis code and confirm that the code 74 and 73 are not outputted any more.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1162   | Code No. 81           |

Cases where the squib circuit between the curtain shield airbag unit and the satellite sensor is shorted with the ground.

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4- 6, before handling the curtain shield airbag components and observe every notice during work.

1. Check of wire harness

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector from the satellite sensor.
- Disconnect the connector from the curtain shield airbag unit.

- Connect a ohmmeter between the connector terminal at the vehicle wire harness side and body earth.  
Between Terminal TD6 (+) and Body Earth:  
No continuity exists.

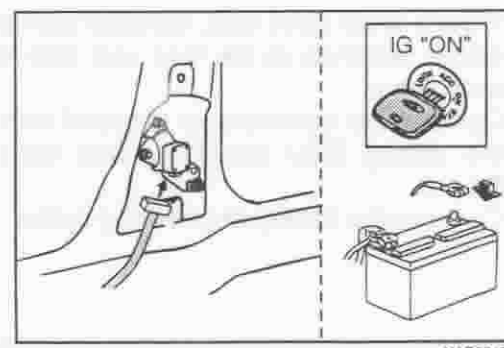
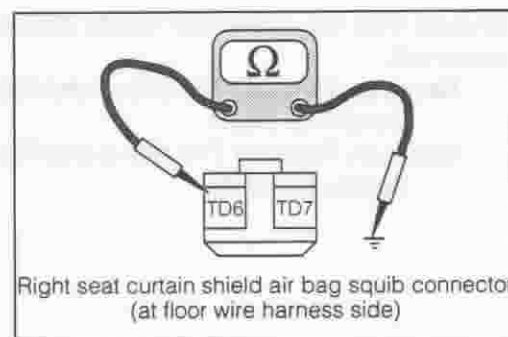
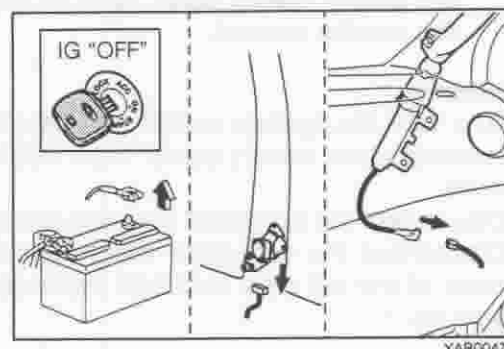
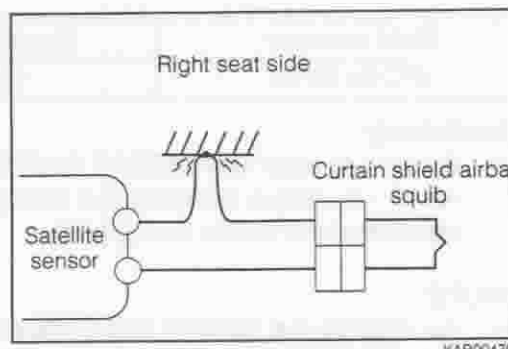
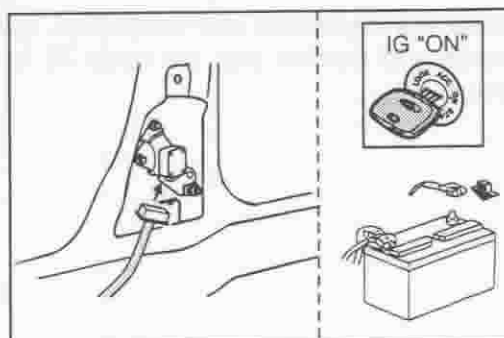
If it might be shorted, replace the wire harness.

2. Check of satellite sensor

- Connect the connector of the satellite sensor.
- Connect the battery negative (-) cable.
- Turn ON the ignition switch.
- Perform the diagnosis canceling procedure.
- Then, confirm the diagnosis code 81 will not be outputted.

### NOTE:

- It is permissible that other codes are outputted. If diagnosis code 81 is outputted, replace the satellite sensor.



### Check of curtain shield airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Connect the connector between the curtain shield airbag unit and the floor wire No. 1.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Confirm the diagnosis code after the diagnosis code has been canceled.

If diagnosis code 81 is outputted, replace the curtain shield airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1163   | Code No. 82           |

Cases where the harness between the curtain shield airbag unit and the satellite sensor is shorted with the power supply.

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the curtain shield airbag components and observe every notice during work.

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor.
- (3) Disconnect the connector from the curtain shield airbag unit.

- (4) Connect the battery negative (-) cable.
- (5) Connect a voltmeter between the connector terminal at the vehicle wire harness side and body earth. Then, Turn ON the ignition switch.

Between Terminal TD6 (+) and Body Earth:  
No voltage exists.

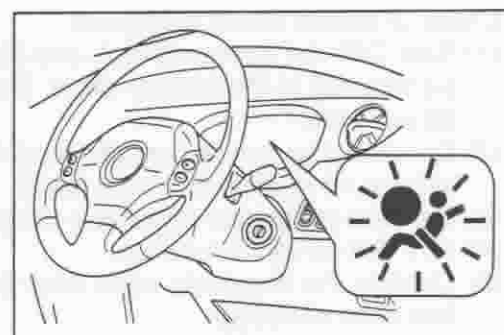
If it might be shorted, replace the wire harness.

### 2. Check of satellite sensor

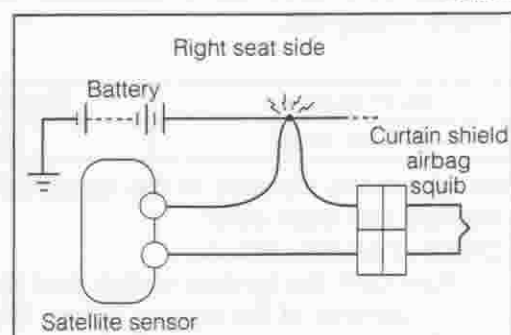
- (1) Turn OFF the ignition switch
- (2) Connect the connector of the satellite sensor.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Perform the diagnosis canceling procedure.
- (6) Then, confirm the diagnosis code 82 will not be outputted.

### NOTE:

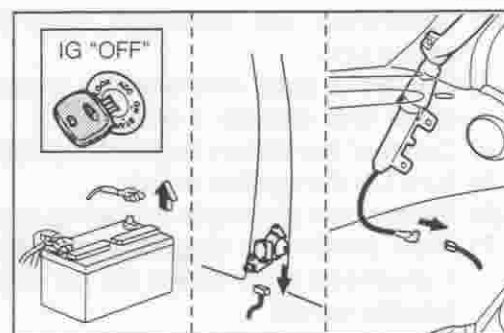
- It is permissible that other codes are outputted. If diagnosis code 82 is outputted, replace the satellite sensor.



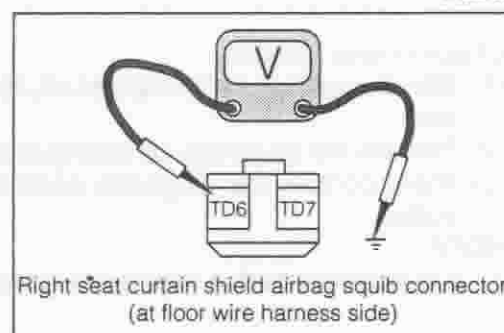
YAB00474



YAB00484

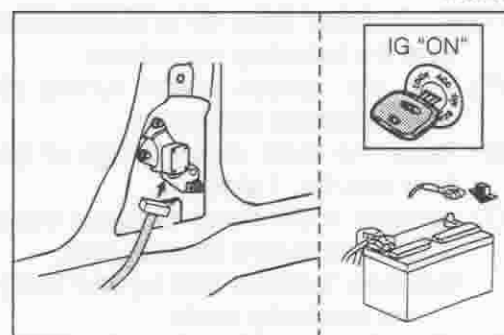


YAB00465



Right seat curtain shield airbag squib connector (at floor wire harness side)

YAB00486



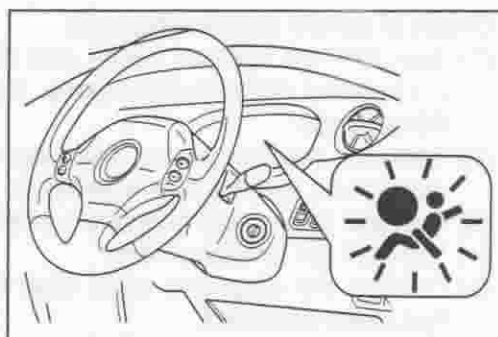
YAB00487

## AB-62

### 3. Check of curtain shield airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Connect the connector between the curtain shield airbag unit and the floor wire No. 1.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Confirm the diagnosis code after the diagnosis code has been canceled.

If diagnosis code 82 is outputted, replace the curtain shield airbag unit.



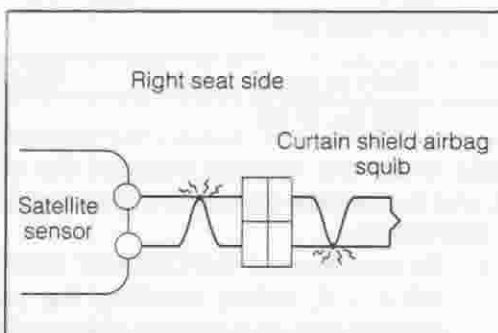
YAB00489

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1160   | Code No. 83           |

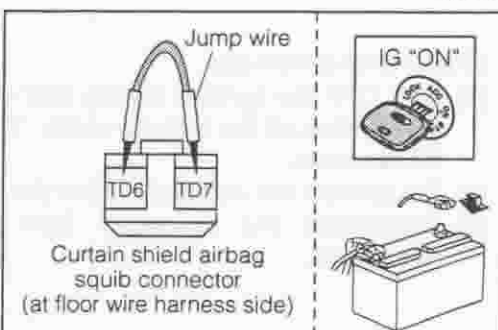
Cases where the harness of the curtain shield airbag squib are shorted with each other.

#### 1. Check of satellite sensor

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 90 seconds.
- (2) Disconnect the connector from the curtain shield airbag unit.
- (3) Connect a jump wire between the connector terminals at the floor wire No. 1 side.
- (4) Connect the battery negative (-) cable.
- (5) Turn ON the ignition switch.
- (6) Perform the diagnosis canceling procedure.
- (7) Then, confirm the diagnosis code 83 will be outputted. If diagnosis code 83 will not be outputted, replace the satellite sensor.



YAB00490



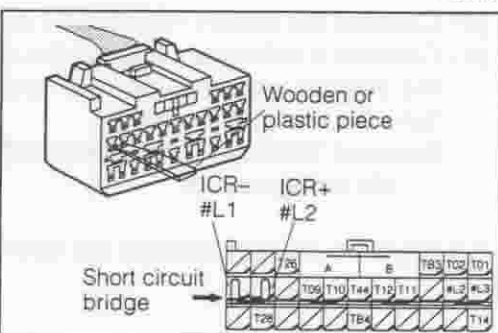
YAB00491

#### 2. Check of wire harness

- (1) With the ignition switch turned off, disconnect the jump wire.
- (2) Perform the diagnosis canceling procedure.
- (3) Then, confirm the diagnosis code 83 will not be outputted.

#### NOTE:

- It is permissible that other codes are outputted.



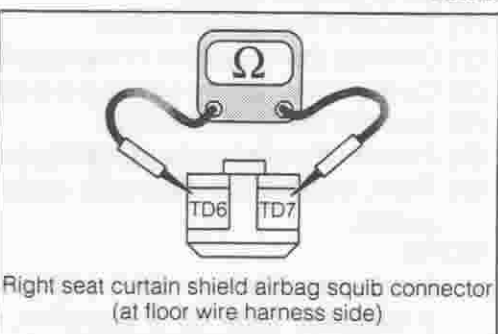
YAB00492

- (4) If diagnosis code 83 is outputted at Step 2. (3), perform the following procedures.
- (5) With the ignition switch turned off, disconnect the satellite sensor connector.
- (6) Raise the short circuit bridge of the connector at the floor wire No. 1 side.
- (7) connect a ohmmeter between the connector terminal at the vehicle wire harness side.

Between Terminal TD6 (+) and TD7 (-):

No continuity exists.

If it might be shorted, replace the wire harness.



YAB00493

### 3. Check of curtain shield airbag unit

- (1) If the diagnosis code is not outputted at Step 2. (3), perform the following procedures.
- (2) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (3) Connect the connector of the curtain shield airbag unit.
- (4) Connect the battery negative (-) cable.
- (5) Turn ON the ignition switch. Confirm the diagnosis code after the diagnosis code has been erased.

If diagnosis code 83 is outputted, replace the curtain shield airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1161   | Code No. 84           |

Cases where open wire is present at the harness between the curtain shield airbag unit and the satellite sensor.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the curtain shield airbag components and observe every notice during work.

### 1. Check of wire harness

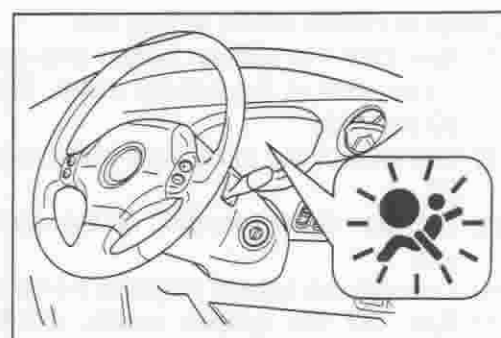
- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
  - (2) Disconnect the connector from the satellite sensor and the curtain shield airbag unit.
  - (3) Disconnect the connector from the curtain shield airbag unit.
  - (4) Connect a ohmmeter between the connector terminal at the vehicle wire harness side.
- Between Terminal TD6 (+) and TD7 (-):  
Continuity exists.

If it might have open wire, replace the wire harness.

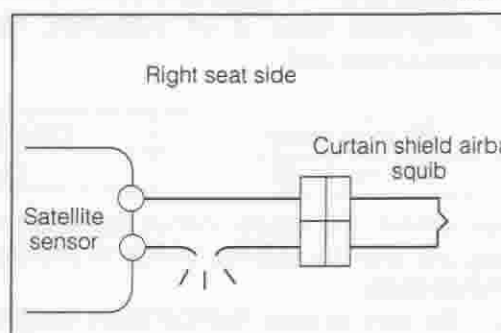
### 2. Check of satellite sensor

- (1) Connect a jump wire between the connector terminals at the floor wire No. 1 side.
- (2) Connect the connector of the satellite sensor.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Perform the diagnosis canceling procedure.
- (6) Then, confirm the diagnosis code 84 will not be outputted.

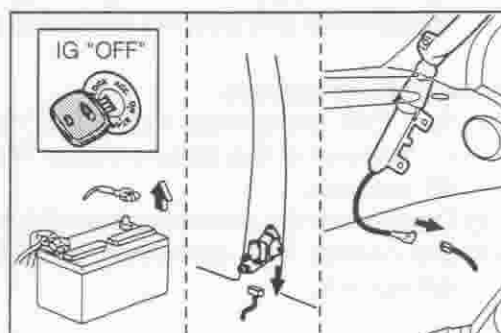
If diagnosis code 84 is outputted, replace the satellite sensor.



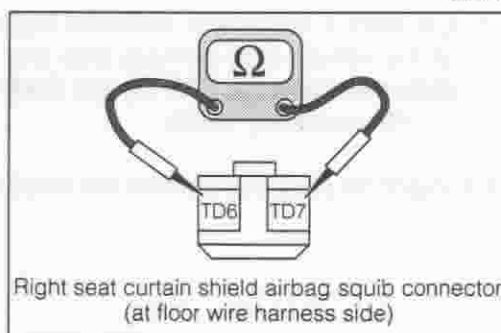
YAB00494



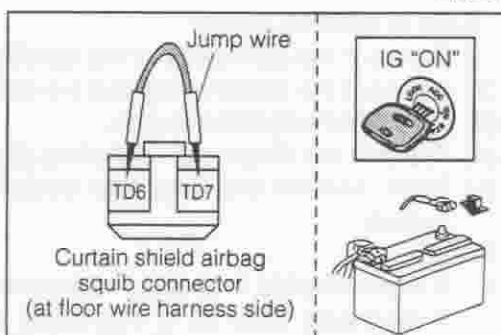
YAB00495



YAB00496



YAB00497



YAB00498

## AB-64

### 3. Check of curtain shield airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the jump wire which is applied at Step 2. (1).
- (3) Connect the connector of the curtain shield airbag unit.
- (4) Connect the battery negative (-) cable.
- (5) Turn ON the ignition switch. Confirm the diagnosis code after the diagnosis code has been erased.

If diagnosis code is 84 outputted, replace the curtain shield airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1167   | Code No. 85           |

Cases where the squib circuit between the curtain shield airbag unit and the satellite sensor is shorted with the ground.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the curtain shield airbag components and observe every notice during work.

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor.
- (3) Disconnect the connector from the curtain shield airbag unit.

- (4) Connect a ohmmeter between the connector terminal at the vehicle wire harness side and body earth.  
Between Terminal TD8 (+) and Body Earth:  
No continuity exists.

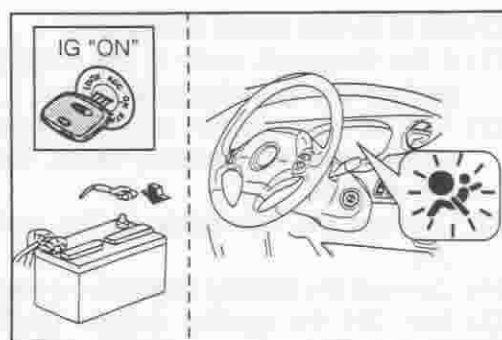
If it might be shorted, replace the wire harness.

### 2. Check of satellite sensor

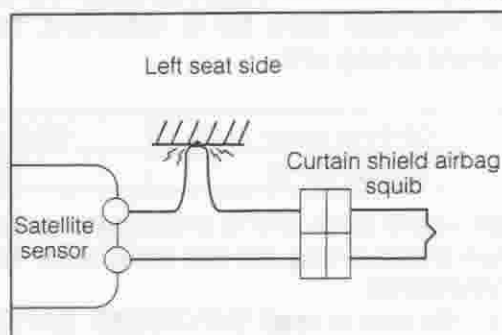
- (1) Connect the connector of the satellite sensor.
- (2) Connect the battery negative (-) cable.
- (3) Turn ON the ignition switch.
- (4) Perform the diagnosis canceling procedure.
- (5) Then, confirm the diagnosis code 85 will not be outputted.

#### NOTE:

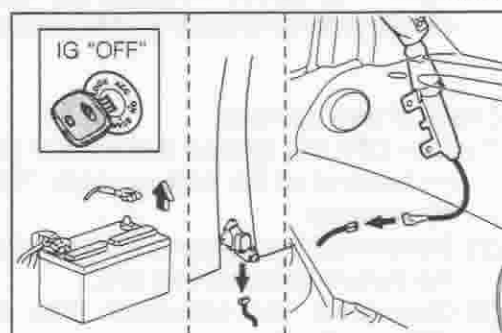
- It is permissible that other codes are outputted. If diagnosis code 85 is outputted, replace the satellite sensor.



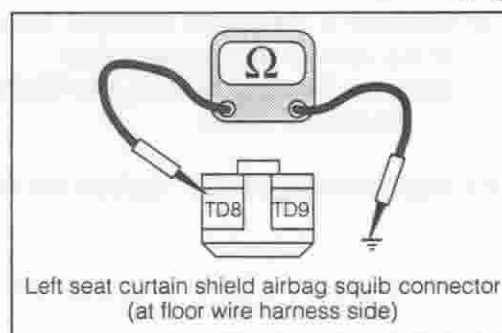
YAB00499



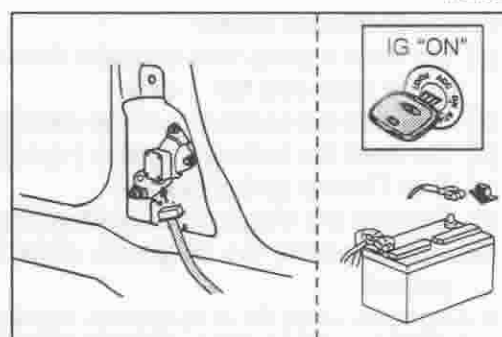
YAB00500



YAB00501



YAB00502



YAB00503

3. Check of curtain shield airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Connect the connector between the curtain shield airbag unit and the floor wire No. 1.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Confirm the diagnosis code after the diagnosis code has been canceled.

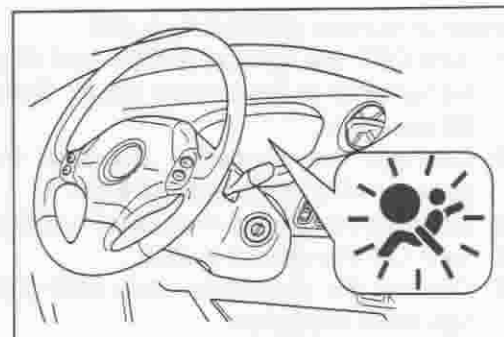
If diagnosis code 85 is outputted, replace the curtain shield airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1168   | Code No. 86           |

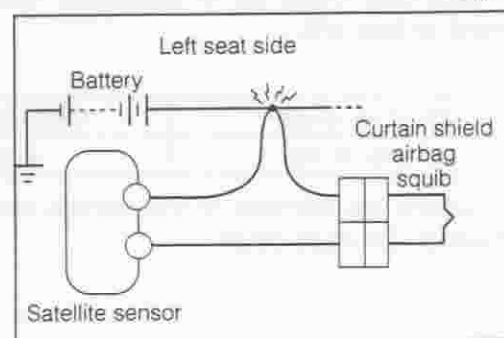
Cases where the harness between the curtain shield airbag unit and the satellite sensor is shorted with the power supply.

**WARNING:**

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the curtain shield airbag components and observe every notice during work.



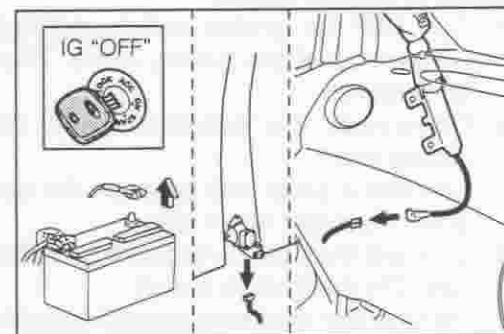
YAB00504



YAB00505

1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor.
- (3) Disconnect the connector from the curtain shield airbag unit.



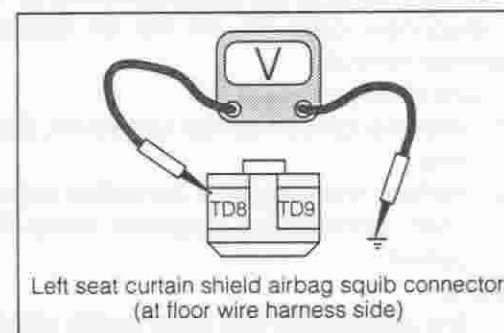
YAB00506

- (4) Connect the battery negative (-) cable.
- (5) Connect a voltmeter between the connector terminal at the vehicle wire harness side and body earth. Then, Turn ON the ignition switch.

Between Terminal TD8 (+) and Body Earth:

No voltage exists.

If it might be shorted, replace the wire harness.



Left seat curtain shield airbag squib connector (at floor wire harness side)

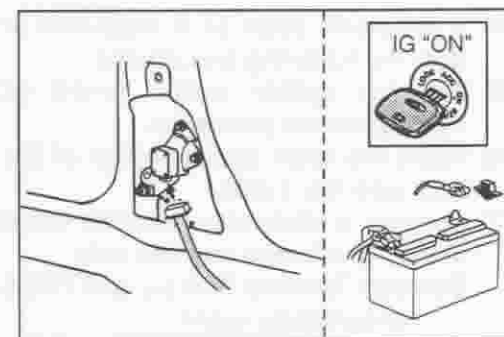
YAB00507

2. Check of satellite sensor

- (1) Turn OFF the ignition switch
- (2) Connect the connector of the satellite sensor.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Perform the diagnosis canceling procedure.
- (6) Then, confirm the diagnosis code 86 will not be outputted.

**NOTE:**

- It is permissible that other codes are outputted. If diagnosis code 86 is outputted, replace the satellite sensor.



YAB00508

## AB-66

### 3. Check of curtain shield airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Connect the connector between the curtain shield airbag unit and the floor wire No. 1.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Confirm the diagnosis code after the diagnosis code has been canceled.

If diagnosis code 86 is outputted, replace the curtain shield airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1165   | Code No. 87           |

Cases where the harness of the curtain shield airbag squib are shorted with each other.

### 1. Check of satellite sensor

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the curtain shield airbag unit.
- (3) Connect a jump wire between the connector terminals at the floor wire No. 1 side.
- (4) Connect the battery negative (-) cable.
- (5) Turn ON the ignition switch.
- (6) Perform the diagnosis canceling procedure.
- (7) Then, confirm the diagnosis code 87 will be outputted. If diagnosis code 87 will not be outputted, replace the satellite sensor.

### 2. Check of wire harness

- (1) With the ignition switch turned off, disconnect the jump wire.
- (2) Perform the diagnosis canceling procedure.
- (3) Then, confirm the diagnosis code 87 will not be outputted.

#### NOTE:

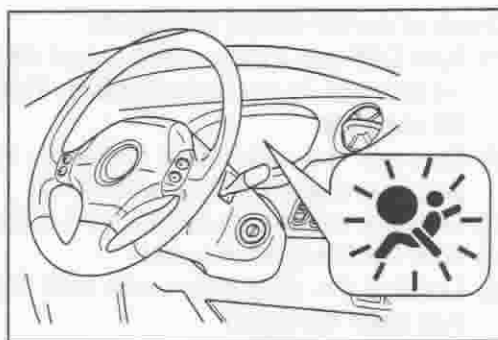
- It is permissible that other codes are outputted.

- (4) If diagnosis code 87 is outputted at Step 2. (3), perform the following procedures.
- (5) With the ignition switch turned off, disconnect the satellite sensor connector.
- (6) Raise the short circuit bridge of the connector at the floor wire No. 1 side.
- (7) connect a ohmmeter between the connector terminal at the vehicle wire harness side.

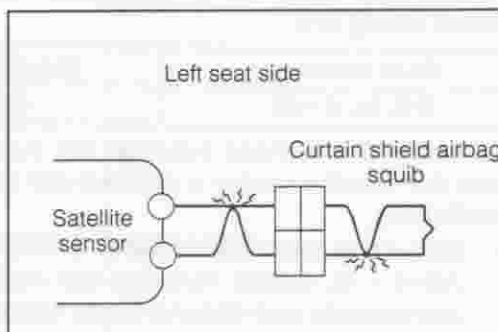
Between Terminal TD8 (+) and TD9 (-):

No continuity exists.

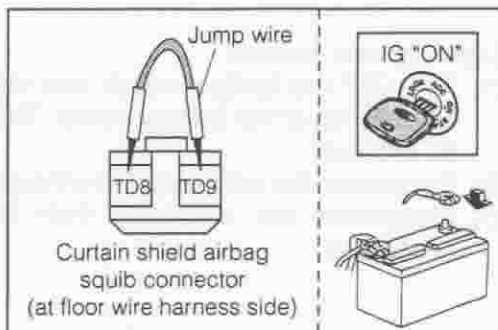
If it might be shorted, replace the wire harness.



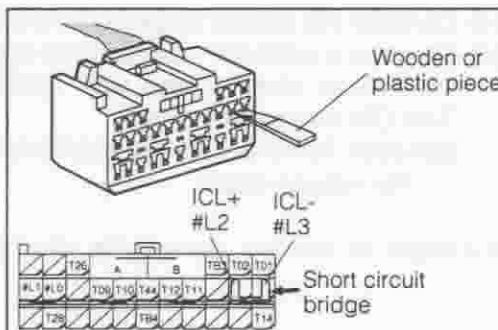
YAB00509



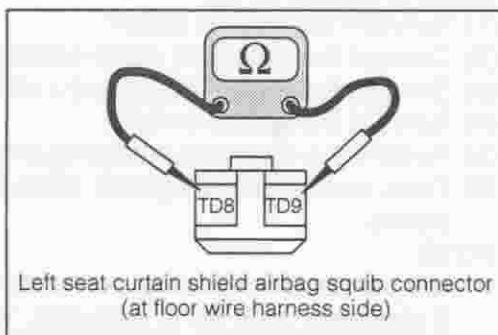
YAB00510



YAB00511



YAB00512



YAB00513

### 3. Check of curtain shield airbag unit

- (1) If the diagnosis code is not outputted at Step 2. (3), perform the following procedures.
  - (2) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
  - (3) Connect the connector of the curtain shield airbag unit.
  - (4) Connect the battery negative (-) cable.
  - (5) Turn ON the ignition switch. Confirm the diagnosis code after the diagnosis code has been erased.
- If diagnosis code 87 is outputted, replace the curtain shield airbag unit.

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1166   | Code No. 88           |

Cases where open wire is present at the harness between the curtain shield airbag unit and the satellite sensor.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the curtain shield airbag components and observe every notice during work.

### 1. Check of wire harness

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the connector from the satellite sensor and the curtain shield airbag unit.
- (3) Disconnect the connector from the curtain shield airbag unit.

- (4) Connect a ohmmeter between the connector terminal at the vehicle wire harness side.

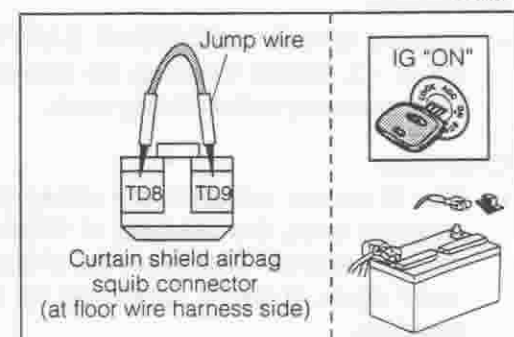
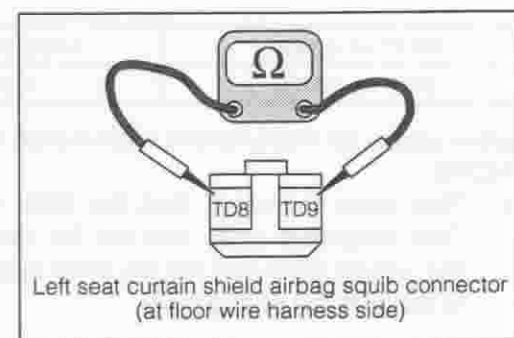
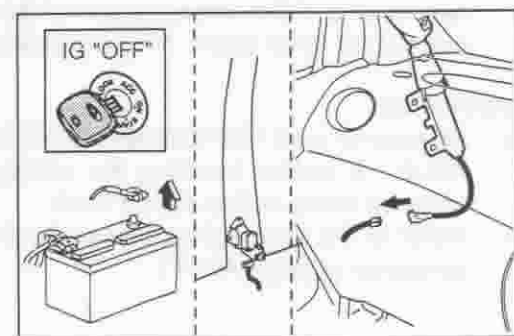
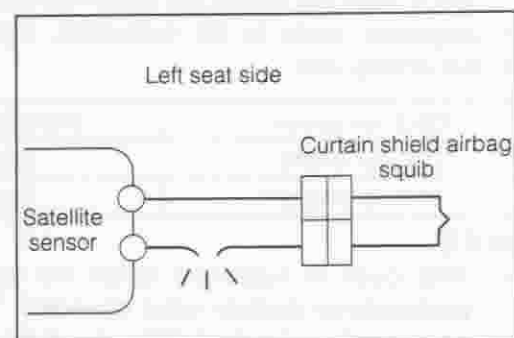
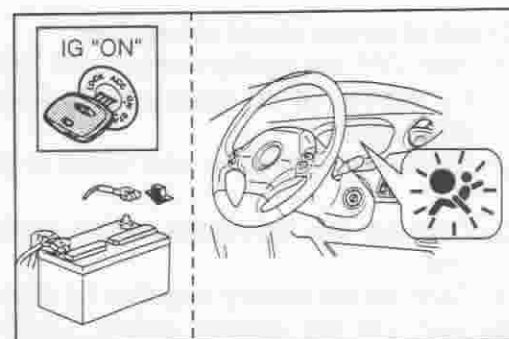
Between Terminal TD8(+) and TD9 (-):  
Continuity exists.

If it might have open wire, replace the wire harness.

### 2. Check of satellite sensor

- (1) Connect a jump wire between the connector terminals at the floor wire No. 1 side.
- (2) Connect the connector of the satellite sensor.
- (3) Connect the battery negative (-) cable.
- (4) Turn ON the ignition switch.
- (5) Perform the diagnosis canceling procedure.
- (6) Then, confirm the diagnosis code 88 will not be outputted.

If diagnosis code 88 is outputted, replace the satellite sensor.



## AB-68

### 3. Check of curtain shield airbag unit

- (1) Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- (2) Disconnect the jump wire which is applied at Step 2. (1).
- (3) Connect the connector of the curtain shield airbag unit.
- (4) Connect the battery negative (-) cable.
- (5) Turn ON the ignition switch. Confirm the diagnosis code after the diagnosis code has been erased.

If diagnosis code is 88 outputted, replace the curtain shield airbag unit.

| DS-21 on screen | Check lamp indication |
|-----------------|-----------------------|
| DTC No. B1310   | Code No. 91           |
| DTC No. B1312   | Code No. 93           |

#### NOTE:

- This code is outputted when the airbag system and pretensioner system were operated. Then fuel cut signal already outputted. This diagnosis code can not be canceled and the airbag, pretensioner and airbag ECU can not be used again. It is necessary to replace them.

#### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.
- Refer to the disposal procedure for the airbag and pretensioner at page AB-71.

| DS-21 on screen | Check lamp indication |
|-----------------|-----------------------|
| DTC No. B1100   | Code No. 31           |

Possible cause for malfunction: Malfunction of ECU

#### NOTE:

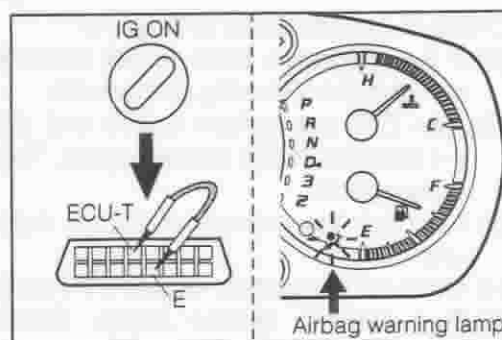
- This code indicates that the ECU is malfunctioning. This diagnosis code can not be canceled. Therefore, the airbag ECU can not be used again. It is necessary to replace the airbag ECU.

#### WARNING:

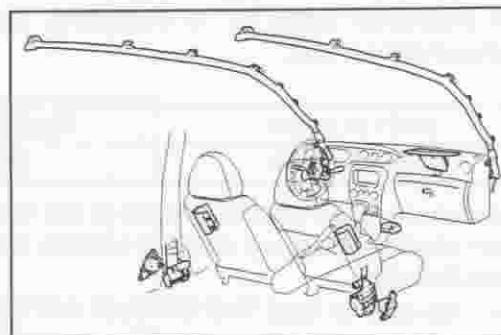
- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-2 - 3, before handling the airbag components and observe every notice during work.

#### CAUTION:

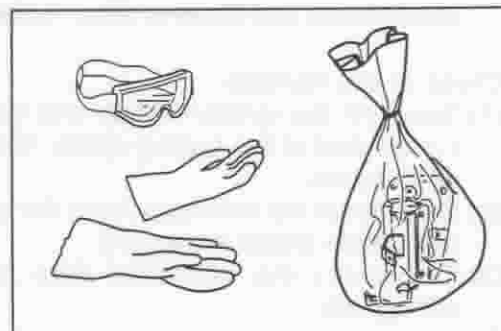
- The G sensor is built in the airbag ECU. If the ECU is dropped once, the reliability of CPU and G sensor can not be assured. Therefore, the airbag ECU can not be used again. Extreme care must be exercised as to its handling.



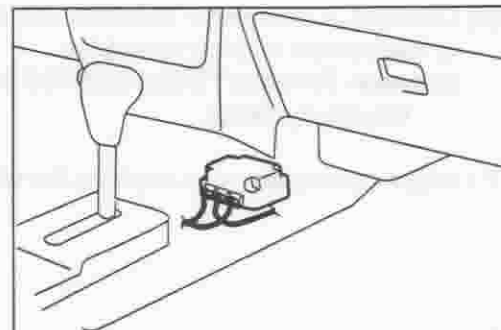
YAB00519



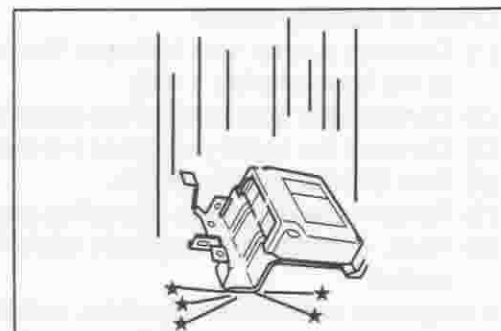
YAB00530



YAB00531



YAB00532



YAB00533

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1304   | Code No. 25           |

**NOTE:**

- When this code is outputted, it indicates that a squib having a value greater than the specified value is connected. Hence, confirm the squib value of the airbag circuit according to the vehicle specifications.

**WARNING:**

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the airbag components and observe every notice during work.

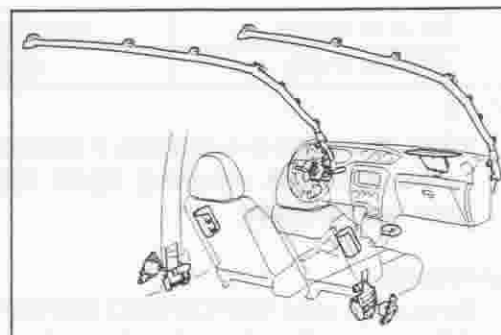
|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1305   | Code No. 26           |

**NOTE:**

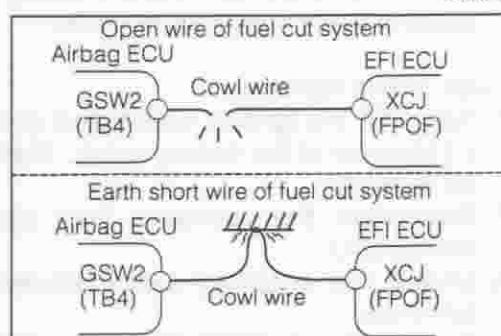
- When this code is outputted, it indicates that open wire in the fuel cut signal output line or GND short has occurred.

**WARNING:**

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the airbag components and observe every notice during work.



YAB00534



YAB00535

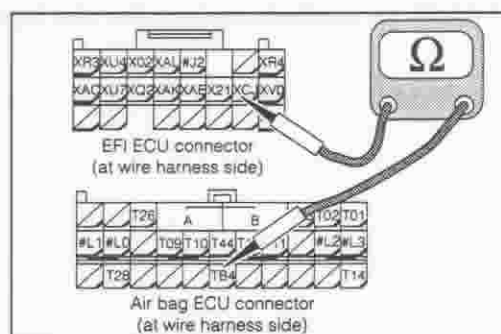
10. Check of wire harness

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector from the EFI ECU and airbag ECU.
- Ensure that continuity exists between the respective terminals.  
Between Terminal TB4 (GSW2) and XCJ (FPOF):  
Continuity exists.

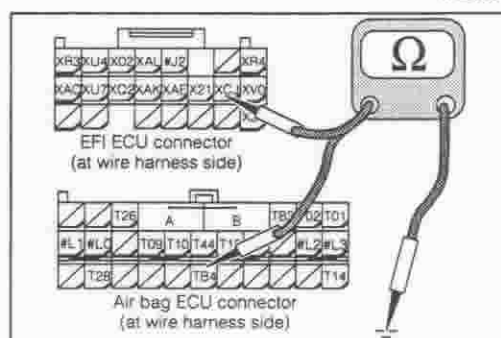
If it might be open, replace the harness.

- Ensure that no continuity exists between the cowl wire terminal and the body earth.  
Between Terminal XCJ (FPOF) and Body Earth:  
No Continuity exists.  
Between Terminal TB4 (GSW2) and Body Earth:  
No Continuity exists.

If it might be shorted, replace the harness.



YAB00536



YAB00537

## AB-70

|                 |                       |
|-----------------|-----------------------|
| DS-21 on screen | Check lamp indication |
| DTC No. B1306   | Code No. 26           |

### NOTE:

- When this code is outputted, it indicates that open wire in the door lock releasing signal output line or GND short has occurred.

### WARNING:

- Be sure to read "IMPORTANT SAFETY NOTICE", page AB-4 - 6, before handling the airbag components and observe every notice during work.

### 2. Check of wire harness

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Disconnect the connector from the ITC ECU and airbag ECU.
- Ensure that continuity exists between the respective terminals.

Between Terminal TB3 (GSW1) and QC3 (CS1):  
Continuity exists.

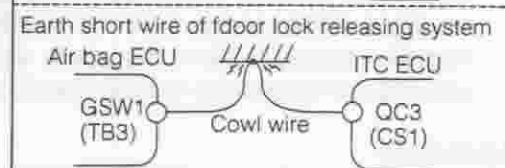
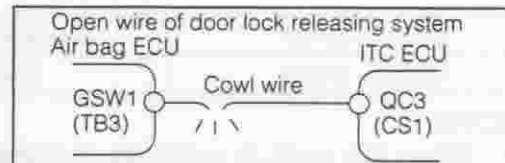
If it might be open, replace the wire harness.

- Ensure that no continuity exists between the cowl wire terminal and the body earth.

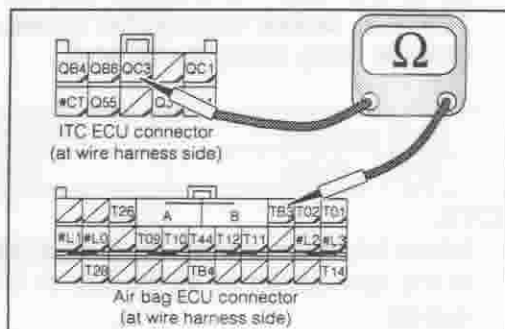
Between Terminal TB3 (GSW1) and Body Earth:  
No Continuity exists.

Between Terminal QC3 (CS1) and Body Earth:  
No Continuity exists.

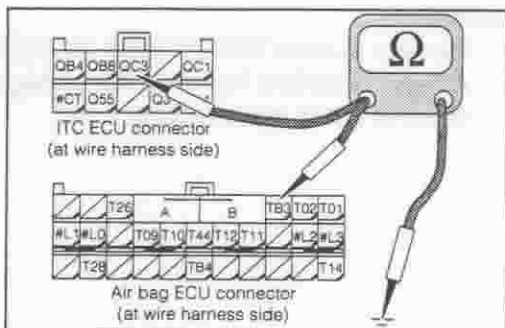
If it might be shorted, replace the wire harness.



YAB00538



YAB00539



YAB00540

## DISPOSAL PROCEDURE FOR AIRBAG AND PRETENSIONER

### DISPOSAL OF VEHICLES WITH AIRBAG SYSTEM

#### WARNING:

- When disposing the vehicles with the airbag system, deploy the airbag while it is mounted on the vehicle. As for the pretensioner, also operate the squib before disposing the vehicle.

#### <Disposal procedure for airbag in driver's seat>

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Prepare a 12-V battery for automotive use.
- Remove the computer cover. Disconnect the connector at the vehicle wire harness side from the airbag ECU connector.

- Raise or remove the short circuit bridge at the terminals T11 (AD+) and T12 (AD-) of the disconnected connector, by using an appropriate tool.
- Prepare two wires for automotive use, each of which measures more than six meters long.

#### WARNING:

- Connect the end of one wire with the end of the other wire so that they may be shorted.

- Connect the wires prepared in Step (5) above to the connector terminals T11 (AD+) and T12 (AD-).

#### WARNING:

- This connecting operation to the connector should be performed by one person, not by a joint work of plural operators, so as to avoid mistakes.
- During this operation, there is the possibility that the airbag may be deployed accidentally. Therefore, be sure to give a warning to other persons so that they may get out of the vehicle or may be kept away from the area five meters from the vehicle.

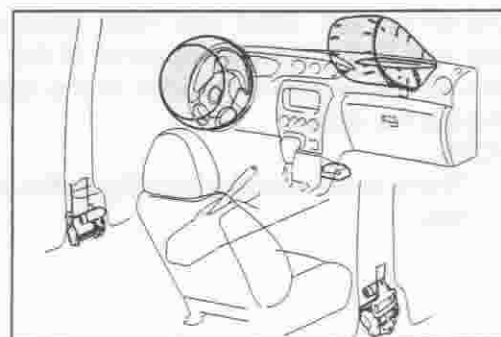
- The shorted section of the wires should be kept five meters or more away from the vehicle, as shown in the figure.

#### CAUTION:

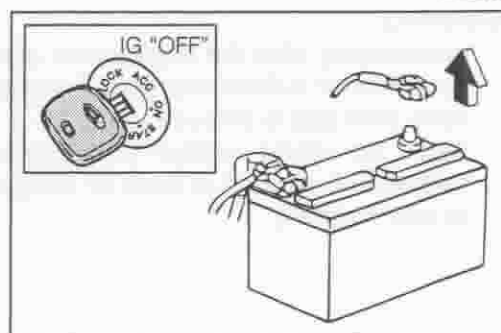
- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the airbag deployment.
- The window glass should be closed in advance.

#### NOTE:

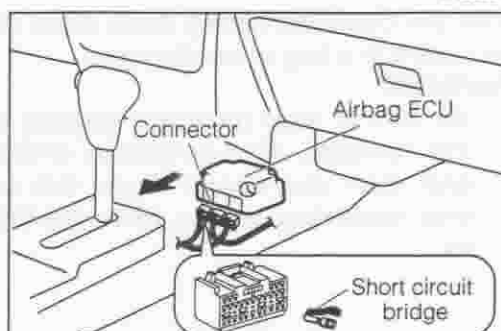
- Concerning the description of open wire of the squib page AB-34, 50, 55 or 59, be sure to temporarily measure a resistance wires as right figure.



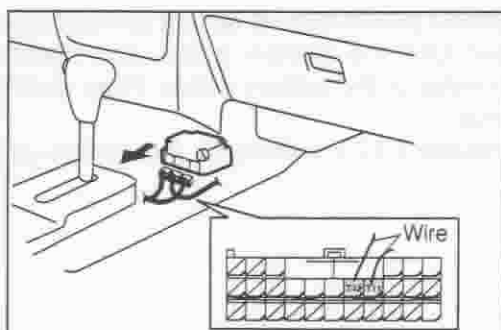
YAB00550



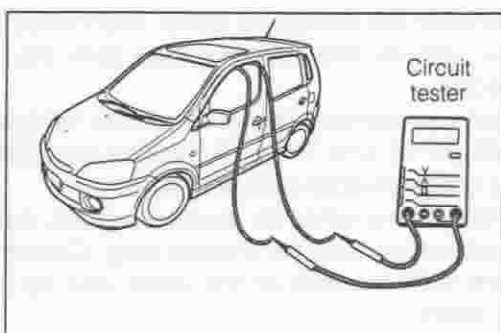
YAB00551



YAB00552



YAB00553



YAB00554

## AB-72

8. Disconnect the wires that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the airbag.

**NOTE:**

- There is no need for identifying the polarity of the battery.

**WARNING:**

- Immediately after the deployment of the airbag, the vehicle interior is filled with gas. Therefore, start the operation after gas is diffused.
- Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally.

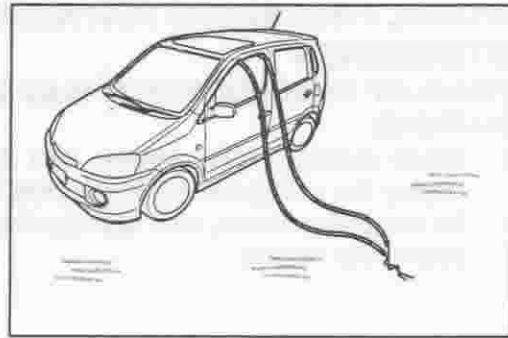
9. After the deployed airbag cools down completely, it shall be sealed in a bag to be disposed.

**WARNING:**

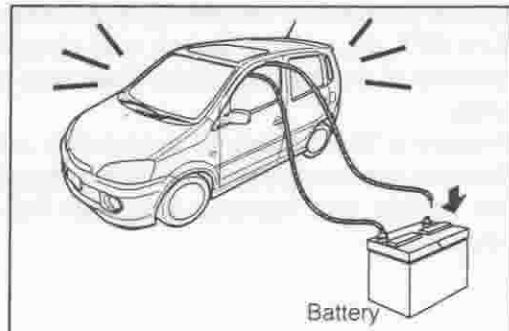
- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.

### <Disposal procedure of airbag at front passenger seat>

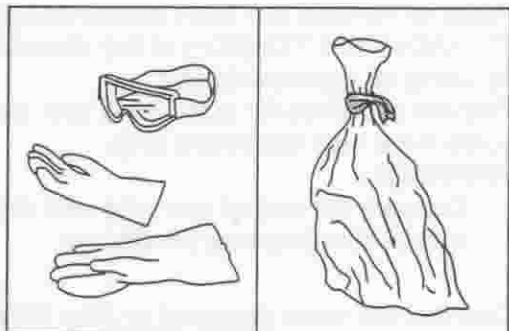
1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Prepare a 12-V battery for automotive use.



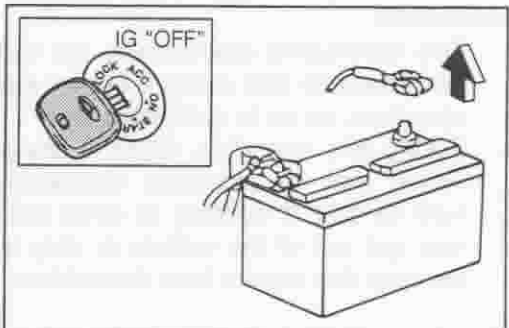
YAB00555



YAB00556

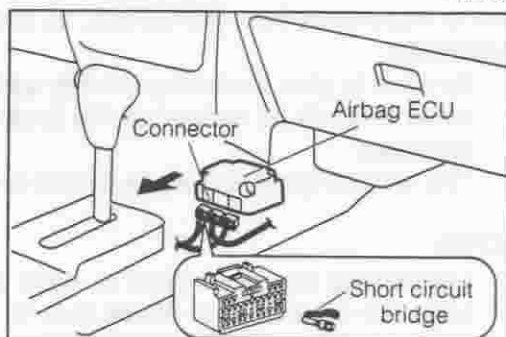


YAB00557



YAB00558

3. Remove the computer cover. Disconnect the connector at the vehicle wire harness side from the airbag ECU connector.
4. Raise or remove the short circuit bridge at the terminals T09 (AP+) and T10 (AP-) of the disconnected connector, by using an appropriate tool.
5. Prepare two wires for automotive use, each of which measures more than six meters long. Connect the end of one wire with the end of the other wire so that they may be shorted.



YAB00559

6. Connect the wires prepared in Step (5) above to the connector terminals T09 (AP+) and T10 (AP-).

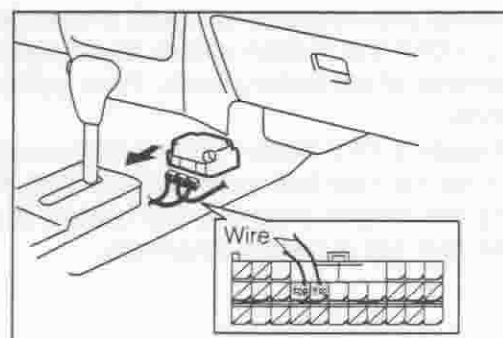
**WARNING:**

- This connecting operation to the connector should be performed by one person, not by a joint work of plural operators, so as to avoid mistakes.
- During this operation, there is the possibility that the airbag may be deployed accidentally. Therefore, be sure to give a warning to other persons so that they may get out of the vehicle or may be kept away from the area five meters from the vehicle.

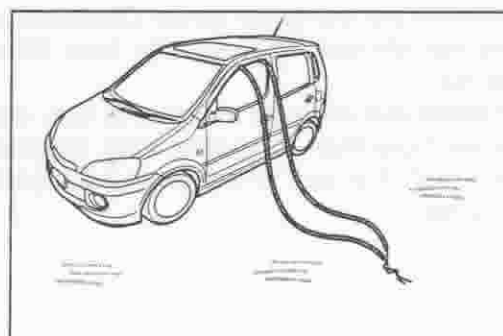
7. The shorted section of the wires should be kept five meters or more away from the vehicle, as shown in the figure.

**CAUTION:**

- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the airbag deployment.
- The window glass should be closed in advance.



YAB00560

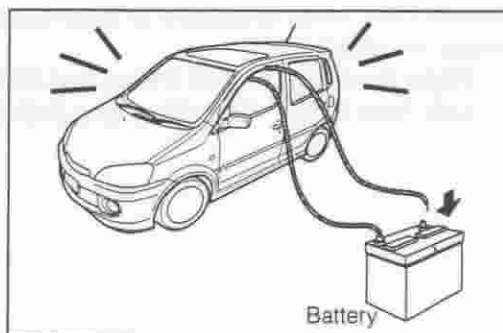


YAB00561

8. Disconnect the wires that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the airbag.

**NOTE:**

- There is no need for identifying the polarity of the battery.



YAB00562

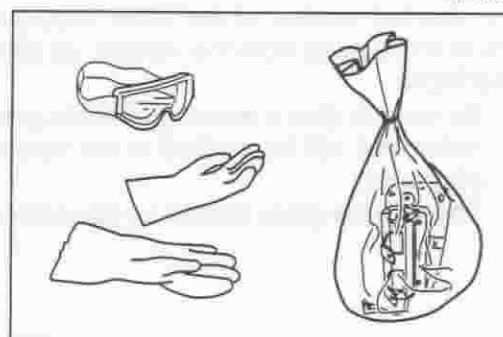
**WARNING:**

- Immediately after the deployment of the airbag, the vehicle interior is filled with gas. Therefore, start the operation after gas is diffused.
- Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally.

9. After the deployed airbag cools down completely, it shall be sealed in a bag to be disposed.

**WARNING:**

- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.

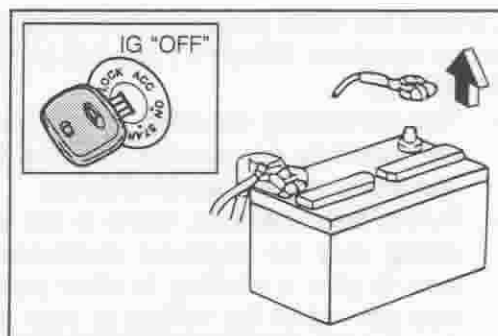


YAB00563

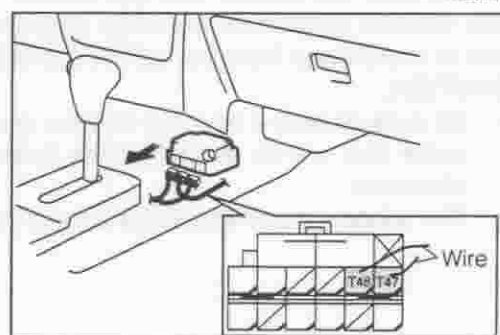
## AB-74

### <Disposal procedure of seat belt pretensioner>

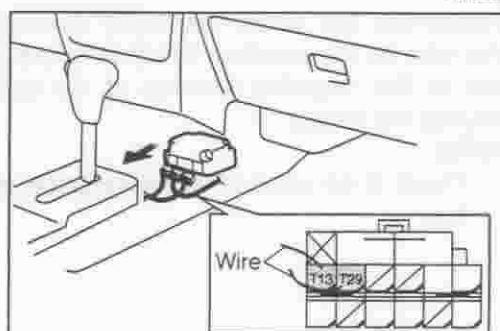
1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Prepare a 12-V battery for automotive use.
3. As for the seat belt in the driver's seat, fasten it by inserting the tongue plate into the buckle in the same way as the seat belt is fastened normally.
4. Remove the computer cover. Disconnect the connector at the vehicle wire harness side from the airbag ECU connector.
5. Prepare two wires for automotive use, each of which measures more than six meters long. Connect the end of one wire with the end of the other wire so that they may be shorted.
6. Connect the wires prepared in Step (5) above to the connector terminals.  
 Right Seat Side: T48 (PR+) and T47 (PR-)  
 Left Seat Side: T29 (PL+) and T13 (PL-)



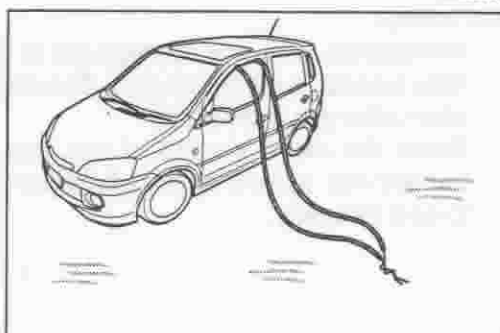
YAB00565



YAB00566



YAB00567



YAB00568

### WARNING:

- This connecting operation to the connector should be performed by one person, not by a joint work of plural operators, so as to avoid mistakes.
- During this operation, there is the possibility that the airbag may be deployed accidentally. Therefore, be sure to give a warning to other persons so that they may get out of the vehicle or may be kept away from the area five meters from the vehicle.

7. The shorted section of the wires should be kept five meters or more away from the vehicle, as shown in the figure.

### CAUTION:

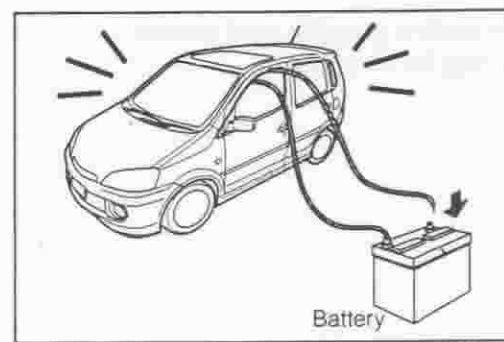
- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the airbag deployment.
- The window glass should be closed in advance.

YAB00026

8. Disconnect the wires that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the airbag.

**NOTE:**

- There is no need for identifying the polarity of the battery.



YAB00569

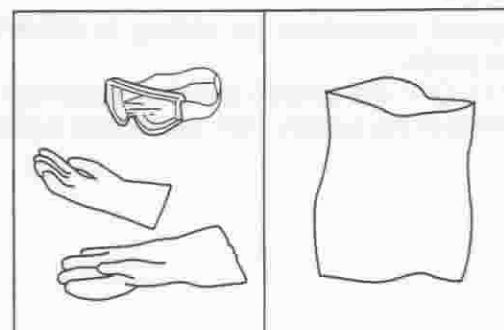
**WARNING:**

- Immediately after the deployment of the airbag, the vehicle interior is filled with gas. Therefore, start the operation after gas is diffused.
- Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally.

9. After the operated seat belt pretensioner cools down completely, it shall be sealed in a bag to be disposed.

**WARNING:**

- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.



YAB00026

YAB00570

**DISPOSAL OF AIRBAG AND SEAT BELT PRETENSIONER**

**CAUTION:**

- It is the best to dispose the airbag and seat belt pretensioner when they are installed in the vehicle. However, if it is unavoidable to perform the pre-treatment for disposal for the unit itself, follow the procedure given below.

**NOTE:**

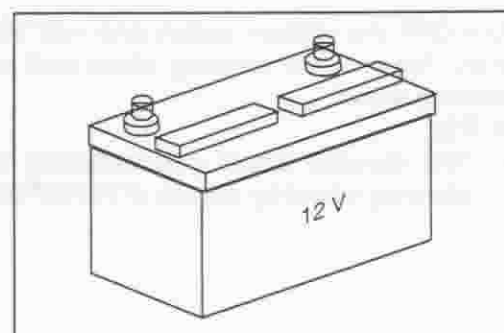
- Items to be prepared.

1. 12-V battery for automotive use
2. Two wires for automotive use, each measuring at least 10 meters long.

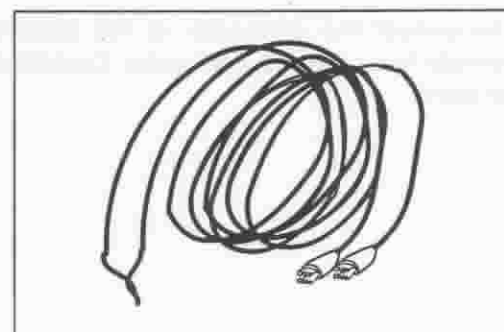
An alligator clip is connected to each end of these wires.

**WARNING:**

- Connect the end of one wire with the end of the other wire so that they may be shorted.
- No switch shall be installed to these wires so as to prevent accidents.



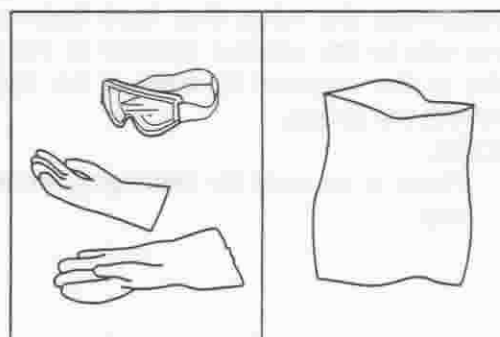
YAB00571



YAB00572

## AB-76

3. Protective goggles and gloves
4. A bag for disposal

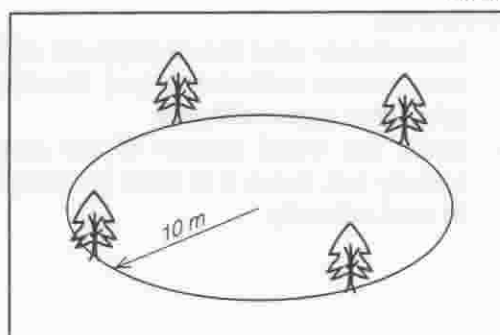


YAB00573

5. A spacious place whose radius is at least 10 meters

### CAUTION:

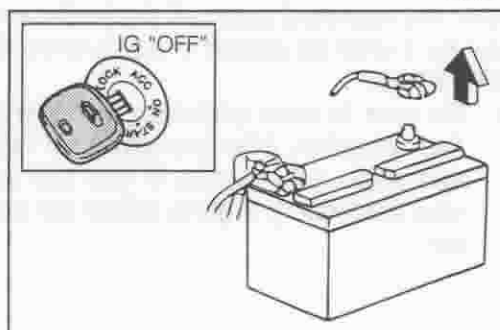
- Do not perform the pre-treatment for disposal for the airbag and seat belt pretensioner on a windy or rainy day.



YAB00574

### <Disposal procedure for airbag in driver's seat (steering wheel pad)>

1. Turn OFF the ignition switch. Disconnect the negative terminal of the battery from the vehicle cable terminal.

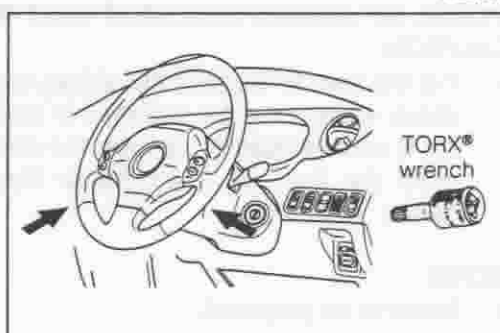


YAB00575

2. Turn OFF the ignition switch and wait for at least 60 seconds. Remove the steering wheel pad assembly from the steering wheel.

### NOTE:

- The steering wheel pad assembly is installed to the steering wheel by means of TORX® bolts.



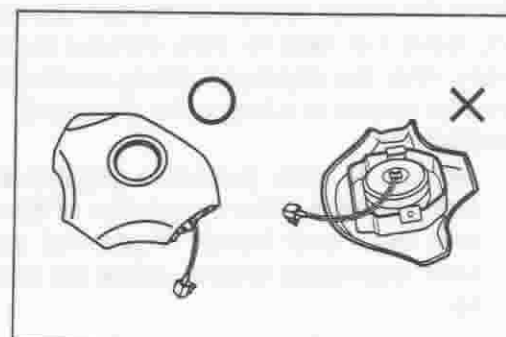
YAB00576

3. Disconnect the connector of the steering wheel pad assembly from the roll connector. Disconnect the connector for horn.

YAB00026

**WARNING:**

- When storing the steering pad assembly temporarily, be sure to place it with the pad surface facing upward on a flat place which is not exposed to direct sun rays. Also the storing place shall be away from water and rain.

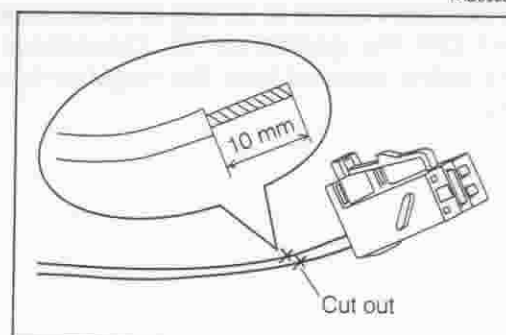


YAB00580

- Cut the wires at the squib connector of the steering pad assembly. Remove the covering of each end of the two cut wires about 10 mm.

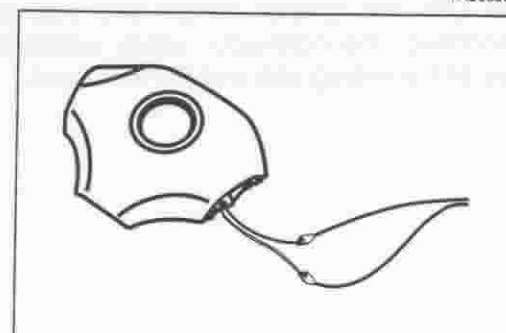
**WARNING:**

- Connect the sections each other whose wire coverings have been removed so that they may be shorted.



YAB00581

- Place the steering pad assembly at the center of the prepared place. At this time, the pad surface should face upward.
- Disconnect the shorted squib wires of the steering pad assembly. Connect the alligator clip attached to the end of the prepared 10 m-long wire to each squib wire.

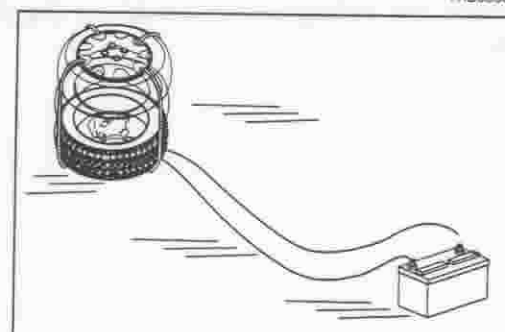


YAB00582

- Place the prepared 12-V battery for automotive use at a corner of the place. Bring nearby the shorted ends of the wires which are extended from the steering pad assembly.

**WARNING:**

- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the airbag deployment.



YAB00583

- Disconnect the wire ends that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the airbag.

**NOTE:**

- There is no need for identifying the polarity of the battery.

YAB00026

## AB-78

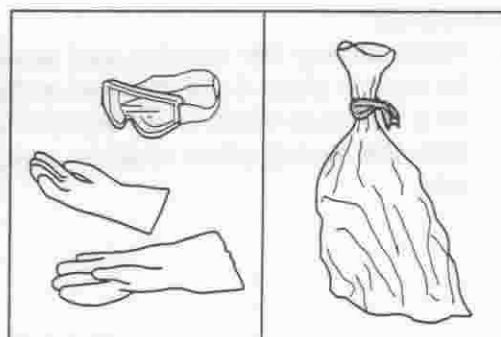
9. Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally. After the deployed airbag cools down completely, it shall be sealed in a bag to be disposed.

### WARNING:

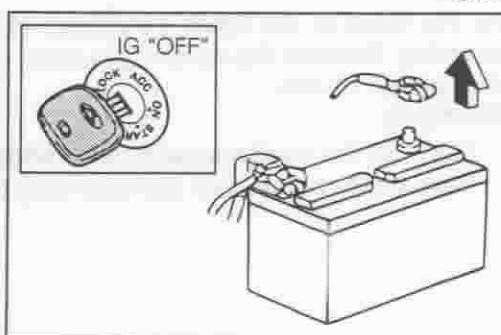
- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.

### <Disposal procedure of airbag in front passenger seat>

1. Turn OFF the ignition switch. Disconnect the vehicle battery cable terminal from the negative terminal of the battery.



YAB00584



YAB00585

2. Turn OFF the ignition switch and wait for 60 seconds. Disconnect the connector which connects the wire harness of the airbag unit and the wire cowl.



YAB00586

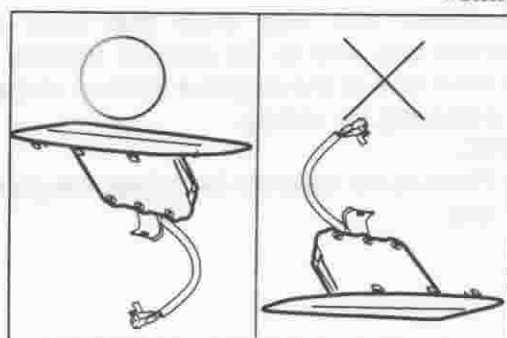
3. Remove the airbag unit assembly in the front passenger seat.



YAB00587

### WARNING:

- When storing the airbag unit assembly in the front passenger seat temporarily, be sure to place it with the pad surface facing upward on a flat place which is not exposed to direct sun rays. Also the storing place shall be away from water and rain.

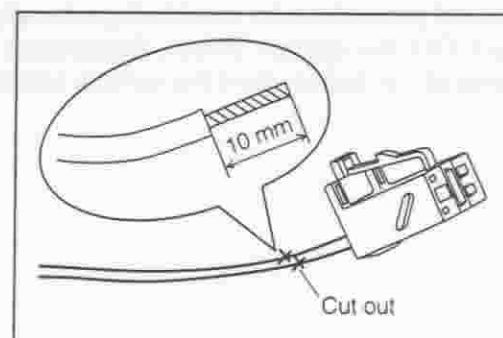


YAB00588

4. Cut the wires at the squib connector of the airbag unit assembly. Remove the covering of the ends of the two cut wires about 10 mm.

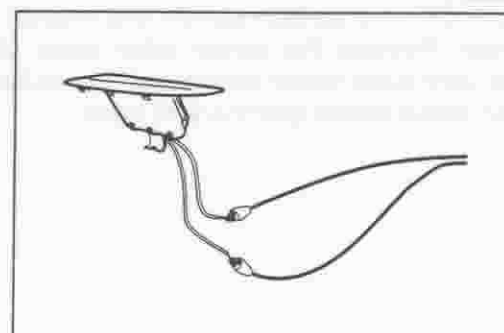
**WARNING:**

- Connect the sections each other whose wire coverings have been removed so that they may be shorted.



YAB00589

5. Place the airbag unit assembly at the center of the prepared place. At this time, the pad surface should face upward.
6. Disconnect the shorted squib wires of the airbag unit assembly. Connect the alligator clip attached to the end of the prepared 10 m-long wire to each squib wire.

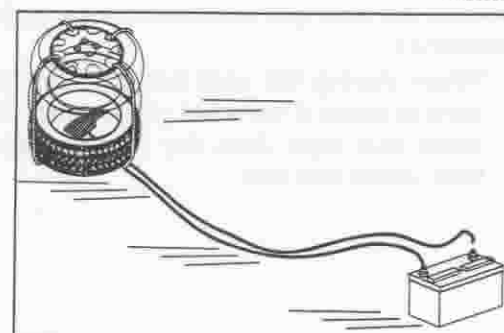


YAB00590

7. Place the prepared 12-V battery for automotive use at a corner of the place. Bring nearby the shorted ends of the wires which are extended from the airbag unit assembly.

**WARNING:**

- The pad assembly should be secured by piled up tires, as shown in the figure.
- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the airbag deployment.



YAB00591

8. Disconnect the wire ends that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the airbag.

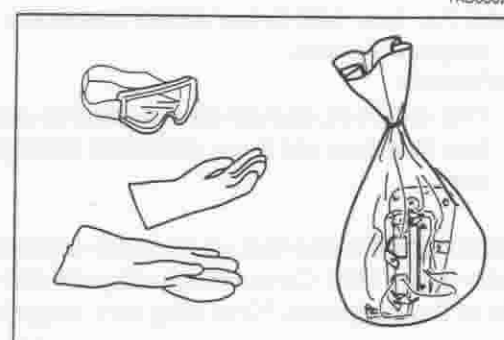
**NOTE:**

- There is no need for identifying the polarity of the battery.

9. Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally. After the deployed airbag cools down completely, it shall be sealed in a bag to be disposed.

**WARNING:**

- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.



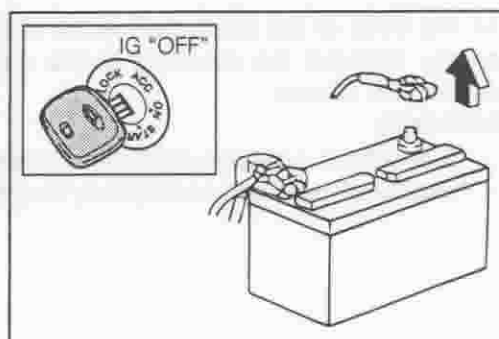
YAB00026

YAB00592

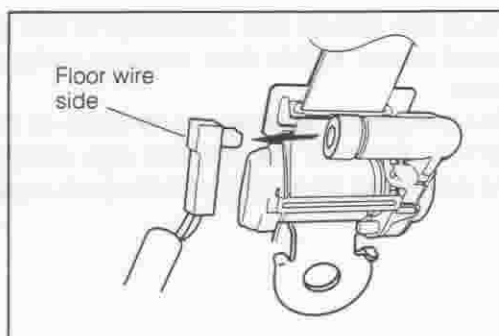
## AB-80

### <Disposal procedure for seat belt pretensioner>

1. Turn OFF the ignition switch. Disconnect the negative terminal of the battery from the vehicle cable terminal.



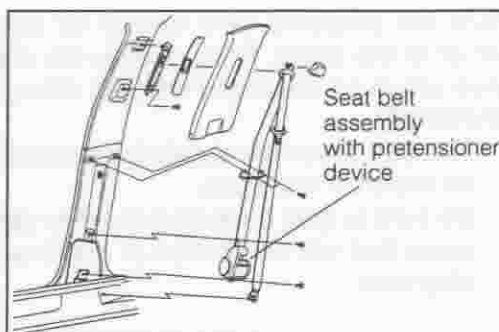
2. Turn OFF the ignition switch and wait at least for 60 seconds. Remove the center pillar lower cover. Disconnect the connector which connects the wire harness of the seat belt pretensioner and the wire cowl.



3. Remove the seat belt pretensioner assembly.

#### WARNING:

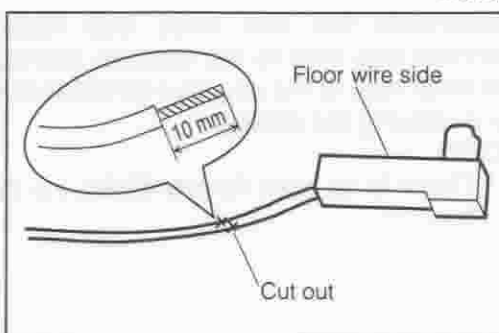
- When storing the seat belt pretensioner assembly, be sure to place it on a flat place which is not exposed to direct sun rays. Also the storing place shall be away from water and rain.



4. Cut the wires at the squib connector of the seat belt pretensioner assembly. Remove the covering of the ends of the two cut wires about 10 mm.

#### WARNING:

- Connect the sections each other whose wire coverings have been removed so that they may be shorted.

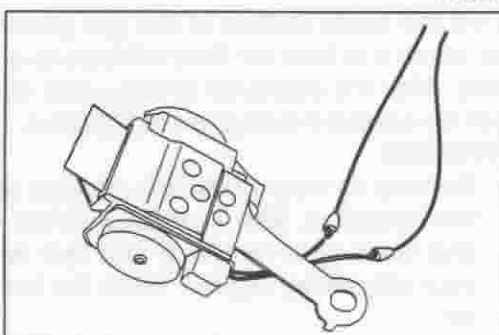


5. Place the seat belt pretensioner assembly at the center of the prepared place.

#### WARNING:

- The seat belt should be retracted in advance. The portion that has not been retracted should be cut by scissors.

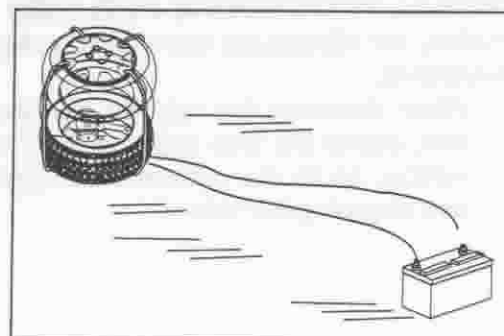
6. Disconnect the shorted squib wires of the seat belt pretensioner assembly. Connect the alligator clip attached to the end of the prepared 10 m-long wire to each squib wire.



7. Place the prepared 12-V battery for automotive use at a corner of the place. Bring nearby the shorted ends of the wires which is extended from the seat belt pretensioner assembly.

**WARNING:**

- The seat belt pretensioner assembly should be secured by piled up tires, as shown in the figure.
- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the airbag deployment.



YAB00596

8. Disconnect the wire ends that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby operating the seat belt pretensioner assembly.

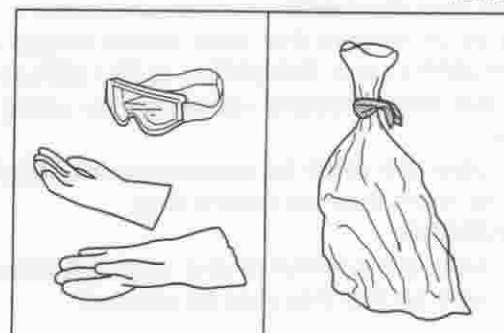
**NOTE:**

- There is no need for identifying the polarity of the battery.

9. After the operation of the seat belt pretensioner, the metal section of the gas generator is extremely hot. Therefore, leave it at least for thirty minutes to allow it to cool naturally. After it cools down completely, it shall be sealed in a bag to be disposed.

**WARNING:**

- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.



YAB00026

YAB00599

## AB-82

### DISPOSAL PROCEDURE FOR SIDE AIRBAG DISPOSAL OF VEHICLES WITH SIDE AIRBAG SYSTEM

#### WARNING:

- When disposing the vehicles with the side airbag system, deploy the side airbag while it is mounted on the vehicle. As for the pretensioner, operate the squib before disposing the vehicle.

#### <DISPOSAL PROCEDURE FOR SIDE AIRBAG>

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Prepare a 12-V battery for automotive use.
- Remove the scuff plate, center pillar garnish and front seat. Disconnect the connector at the vehicle wire harness side from the satellite sensor connector.
- Raise or remove the short circuit bridge at the terminals TA5 (SFR+) and TA6 (SFR-) or TA7 (SFL+) and TA8 (SFL-) of the disconnected connector, by using an appropriate tool.
- Prepare two wires for automotive use, each of which measures more than six meters long.

#### WARNING:

- Connect the end of one wire with the end of the other wire so that they may be shorted.

- Connect the wires prepared in Step 5 above to the connector terminals TA5 (SFR+) and TA6 (SFR-) or TA7 (SFL+) and TA8 (SFL-).

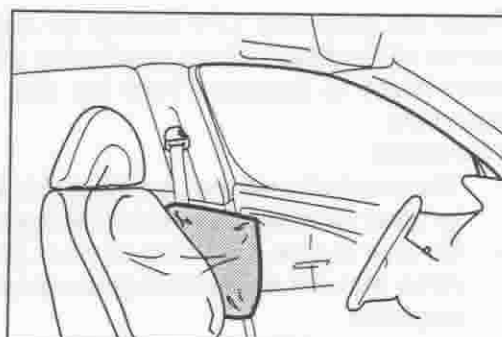
#### WARNING:

- This connecting operation to the connector should be performed by one person, not by a joint work of plural operators, so as to avoid mistakes.
- During this operation, there is the possibility that the side airbag may be deployed accidentally. Therefore, be sure to give a warning to other persons so that they may get out of the vehicle or may be kept away from the area five meters from the vehicle.

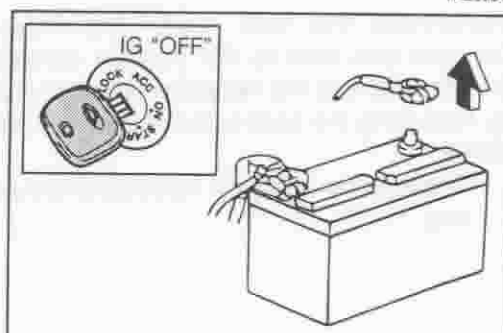
- Install the front seat.
- The shorted section of the wires should be kept five meters or more away from the vehicle, as shown in the figure.

#### CAUTION:

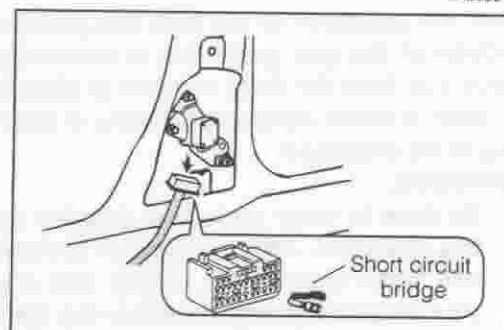
- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the side airbag deployment.
- The window glass should be closed in advance.



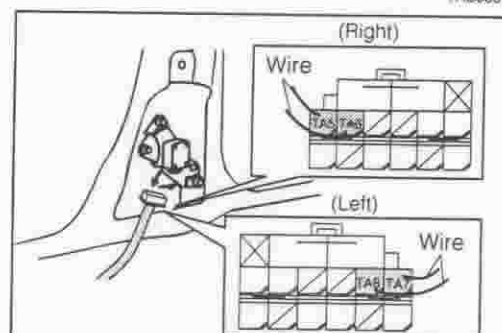
YAB00610



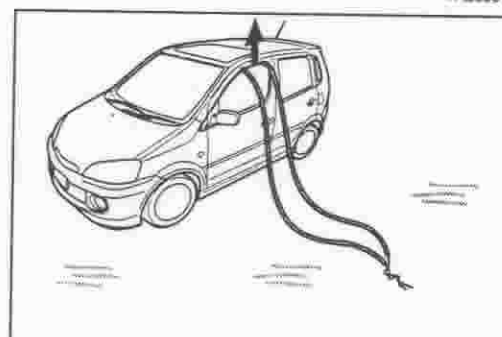
YAB00611



YAB00612



YAB00613



YAB00614

9. Disconnect the wires that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the side airbag.

**NOTE:**

- There is no need for identifying the polarity of the battery.

**WARNING:**

- Immediately after the deployment of the side airbag, the vehicle interior is filled with gas. Therefore, start the operation after gas is diffused.
- Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally.

10. After the deployed side airbag cools down completely, it shall be sealed in a bag to be disposed.

**WARNING:**

- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.

**DISPOSAL OF SIDE AIRBAG UNIT**

**CAUTION:**

- It is the best to dispose the side airbag and seat belt pretensioner when they are installed in the vehicle. However, if it is unavoidable to perform the pre-treatment for disposal for the unit itself, follow the procedure given below.

**NOTE:**

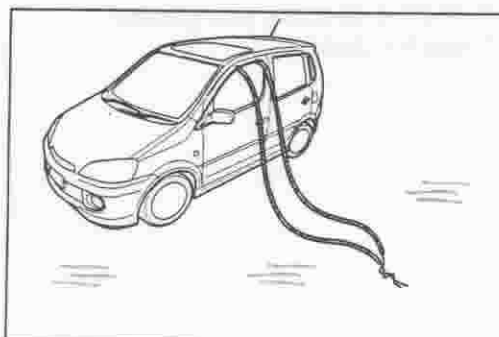
- Items to be prepared.

1. 12-V battery for automotive use
2. Two wires for automotive use, each measuring at least 10 meters long.

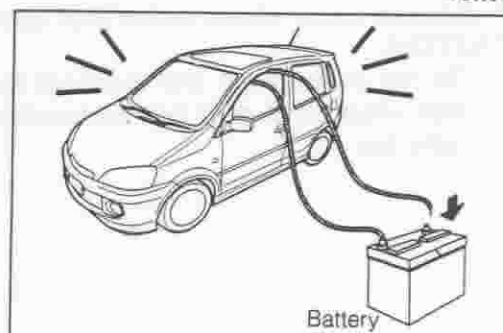
An alligator clip is connected to each end of these wires.

**WARNING:**

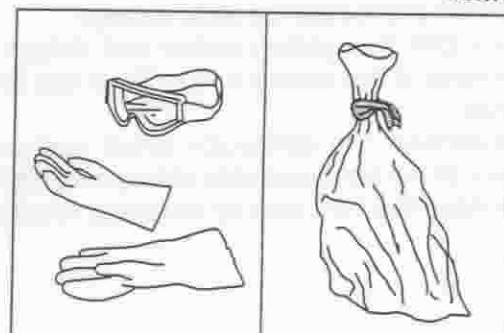
- Connect the end of one wire with the end of the other wire so that they may be shorted.
- No switch shall be installed to these wires so as to prevent accidents.



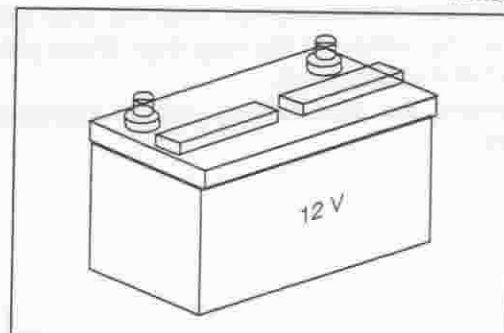
YAB00615



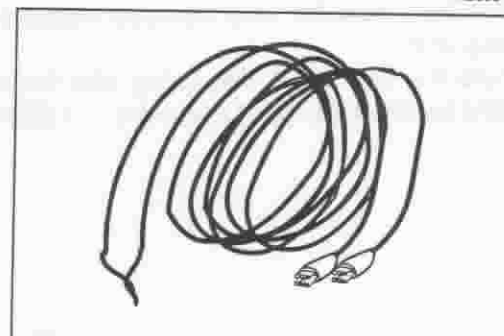
YAB00616



YAB00617



YAB00618



YAB00619

## AB-84

3. Protective goggles and gloves
4. A bag for disposal

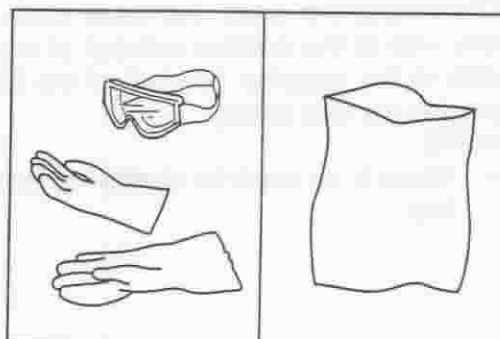
5. A spacious place whose radius is at least 10 meters

### CAUTION:

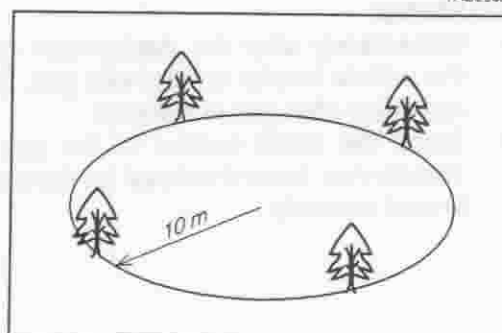
- Do not perform the pre-treatment for disposal for the side airbag and seat belt pretensioner on a windy or rainy day.

### <Disposal procedure for side airbag>

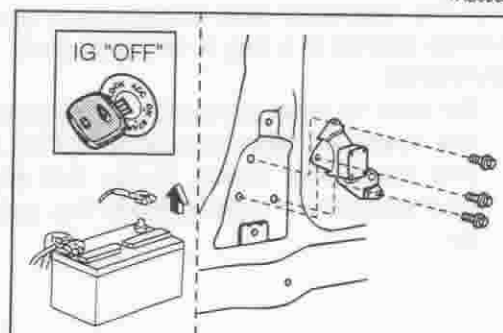
1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Disconnect the connector which connects the wire harness of the front seat side airbag and the floor wire No. 1.
3. Remove the front seat by removing attaching bolts.
4. Turn over the seat cover, until the side airbag unit can be seen, by removing the hug rings (three points) at the lower part of the seat back.
5. Remove the side airbag unit by loosening the attaching nuts.
6. Attach two nuts for wire harness installation to the side airbag unit.
7. Secure the unit to the tire, using wire harnesses for automobile (sectional area of core wire: 1.25 mm<sup>2</sup> or more).



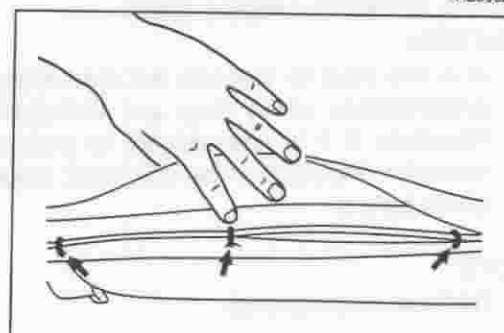
YAB00620



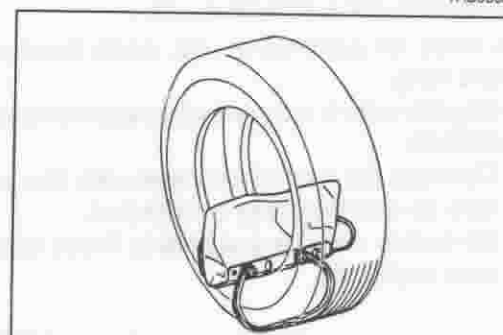
YAB00621



YAB00622



YAB00623

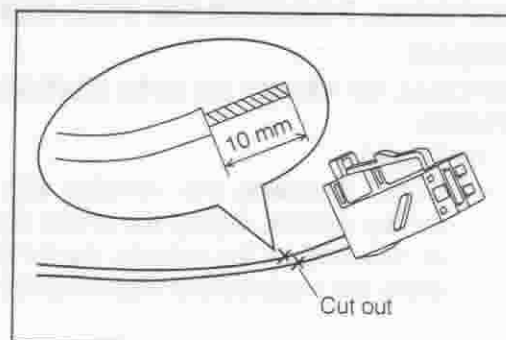


YAB00624

8. Cut the wires at the squib connector of the side airbag unit. Remove the covering of each end of the two cut wires about 10 mm.

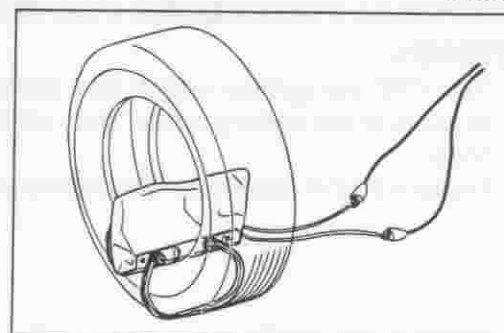
**WARNING:**

- Connect the sections each other whose wire coverings have been removed so that they may be shorted.



YAB00625

9. Place the side airbag unit at the center of the prepared place.
10. Disconnect the shorted squib wires of the side airbag unit. Connect the alligator clip attached to the end of the prepared 10 m-long wire to each squib wire.

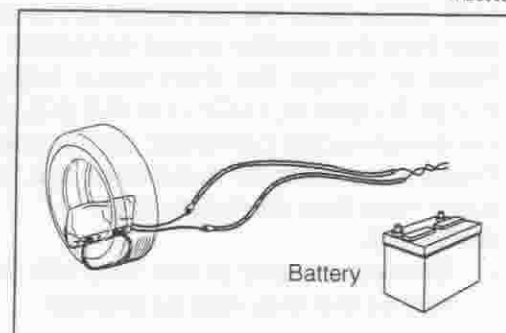


YAB00626

11. Place the prepared 12-V battery for automotive use at a corner of the place. Bring nearby the shorted ends of the wires which are extended from the side airbag unit.

**WARNING:**

- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the airbag deployment.

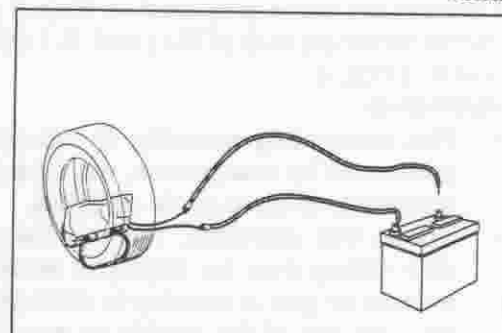


YAB00627

12. Disconnect the wire ends that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the airbag.

**NOTE:**

- There is no need for identifying the polarity of the battery.

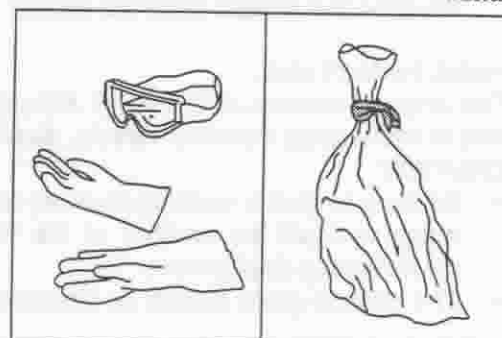


YAB00628

13. Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally. After the deployed airbag cools down completely, it shall be sealed in a bag to be disposed.

**WARNING:**

- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.



YAB00629

## AB-86

### DISPOSAL PROCEDURE FOR CURTAIN SHIELD AIRBAG

#### DISPOSAL OF VEHICLES WITH CURTAIN SHIELD AIRBAG SYSTEM

##### WARNING:

- When disposing the vehicles with the shield curtain airbag system, deploy the shield curtain airbag while it is mounted on the vehicle. As for the pretensioner, operate the squib before disposing the vehicle.

### <DISPOSAL PROCEDURE FOR CURTAIN SHIELD AIRBAG>

- Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
- Prepare a 12-V battery for automotive use.

- Remove the scuff plate, center pillar garnish and front seat. Disconnect the connector at the vehicle wire harness side from the satellite sensor connector.
- Raise or remove the short circuit bridge at the terminals #L0 (ICR+) and #L1 (ICR-) or #L2 (ICL+) and #L3 (ICL-) of the disconnected connector, by using an appropriate tool.
- Prepare two wires for automotive use, each of which measures more than six meters long.

##### WARNING:

- Connect the end of one wire with the end of the other wire so that they may be shorted.

- Connect the wires prepared in Step 5 above to the connector terminals #L0 (ICR+) and #L1 (ICR-) or #L2 (ICL+) and #L3 (ICL-).

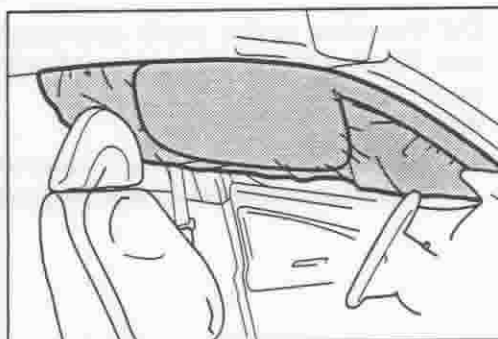
##### WARNING:

- This connecting operation to the connector should be performed by one person, not by a joint work of plural operators, so as to avoid mistakes.
- During this operation, there is the possibility that the side airbag may be deployed accidentally. Therefore, be sure to give a warning to other persons so that they may get out of the vehicle or may be kept away from the area five meters from the vehicle.

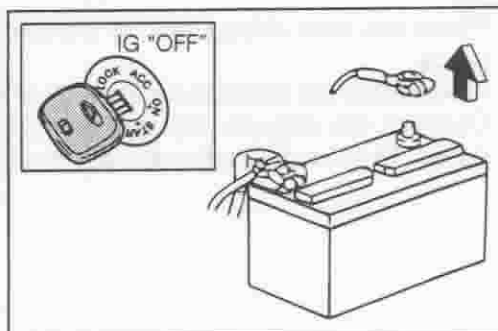
- Install the front seat.
- The shorted section of the wires should be kept five meters or more away from the vehicle, as shown in the figure.

##### CAUTION:

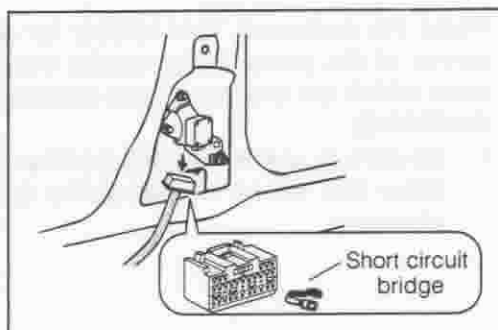
- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the curtain shield airbag deployment.
- The window glass should be closed in advance.



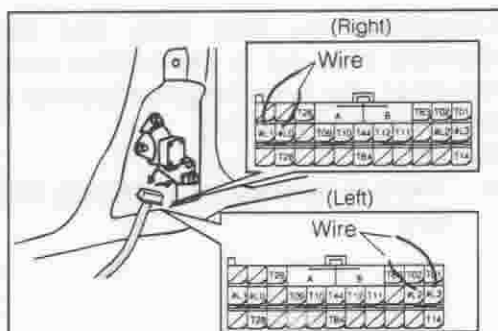
YAB00640



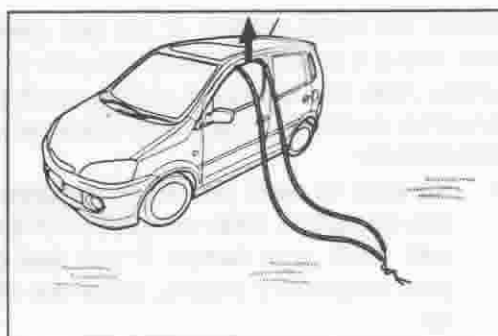
YAB00641



YAB00642



YAB00643



YAB00644

Disconnect the wires that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the curtain shield airbag.

**NOTE:**

- There is no need for identifying the polarity of the battery.

**WARNING:**

- Immediately after the deployment of the shield curtain airbag, the vehicle interior is filled with gas. Therefore, start the operation after gas is diffused.
- Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally.

10. After the deployed curtain shield airbag cools down completely, it shall be sealed in a bag to be disposed.

**WARNING:**

- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.

**DISPOSAL OF CURTAIN SHIELD AIRBAG UNIT**

**CAUTION:**

- It is the best to dispose the shield curtain airbag when they are installed in the vehicle. However, if it is unavoidable to perform the pre-treatment for disposal for the unit itself, follow the procedure given below.

**NOTE:**

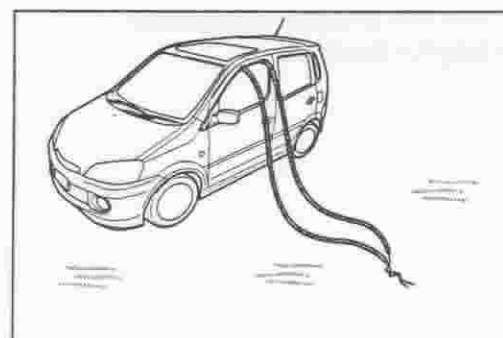
- Items to be prepared.

1. 12-V battery for automotive use
2. Two wires for automotive use, each measuring at least 10 meters long.

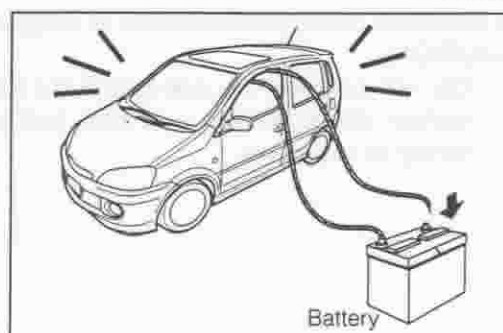
An alligator clip is connected to each end of these wires.

**WARNING:**

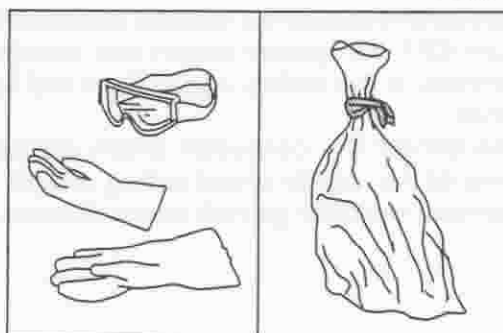
- Connect the end of one wire with the end of the other wire so that they may be shorted.
- No switch shall be installed to these wires so as to prevent accidents.



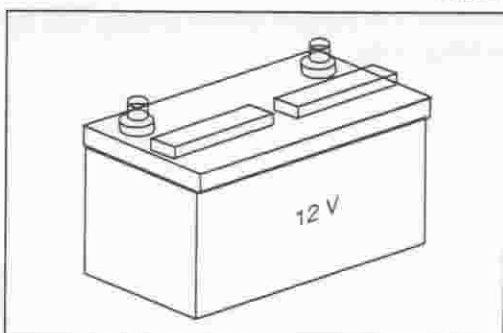
YAB00645



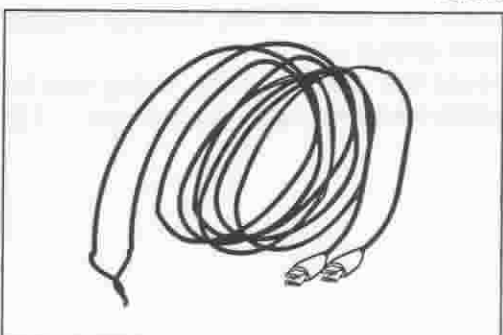
YAB00646



YAB00647



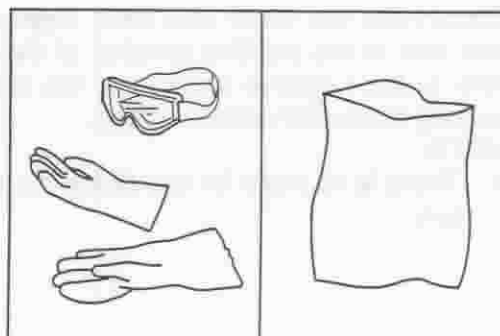
YAB00648



YAB00649

## AB-88

3. Protective goggles and gloves
4. A bag for disposal

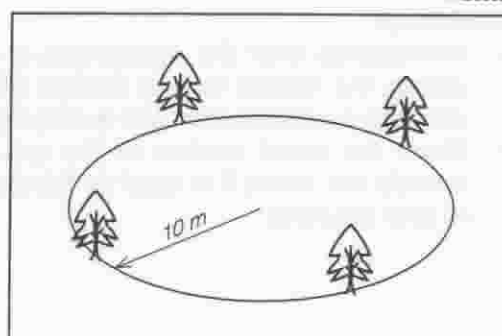


YAB00650

5. A spacious place whose radius is at least 10 meters.

### CAUTION:

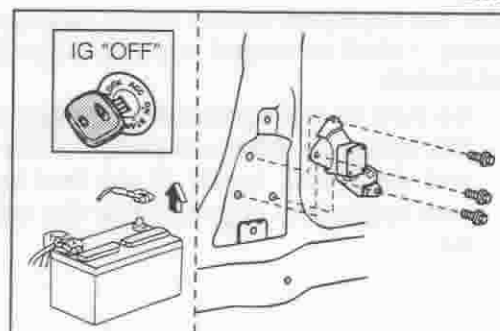
- Do not perform the pre-treatment for disposal for the curtain shield airbag and seat belt pretensioner on a windy or rainy day.



YAB00651

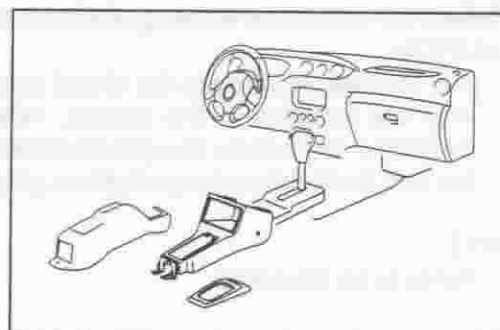
### <Disposal procedure for curtain shield airbag>

1. Turn OFF the ignition switch and detach the negative (-) terminal of the battery cable. Then wait for at least 60 seconds.
2. Disconnect the connector which connects the wire harness of the curtain shield airbag and the floor wire No. 1.
3. Remove the pillar garnish and instrument panel.



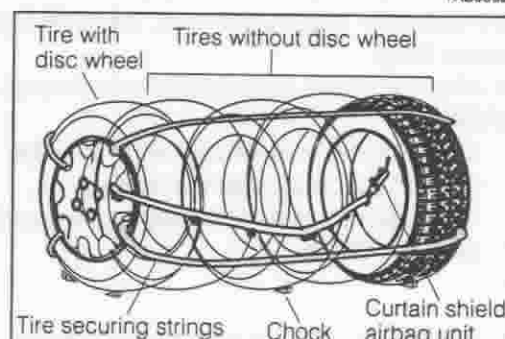
YAB00652

5. Remove the curtain shield airbag unit by tightening the attaching bolts.



YAB00653

6. Attach two nuts for wire harness installation to the curtain shield airbag unit.
7. Secure the unit to the tire, using wire harnesses for automobile (sectional area of core wire: 1.25 mm<sup>2</sup> or more).

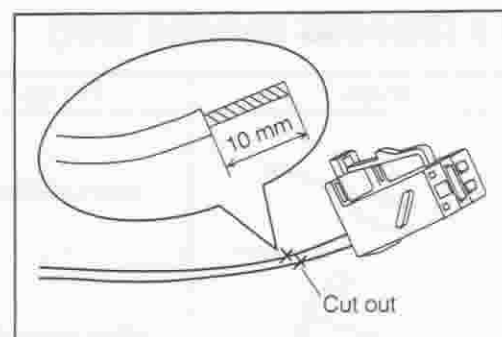


YAB00654

8. Cut the wires at the squib connector of the curtain shield airbag unit. Remove the covering of each end of the two cut wires about 10 mm.

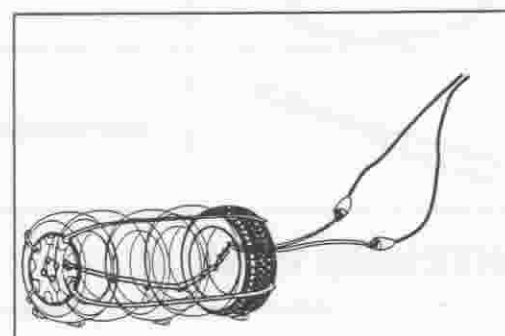
**WARNING:**

- Connect the sections each other whose wire coverings have been removed so that they may be shorted.



YAB00655

9. Place the curtain shield airbag unit at the center of the prepared place.
10. Disconnect the shorted squib wires of the curtain shield airbag unit. Connect the alligator clip attached to the end of the prepared 10 m-long wire to each squib wire.

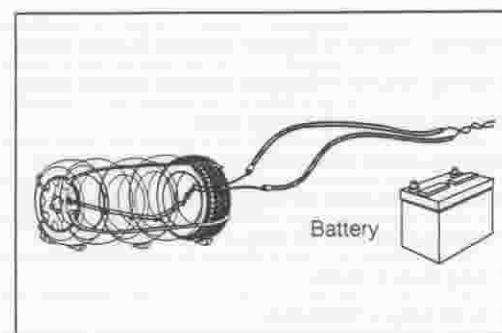


YAB00656

11. Place the prepared 12-V battery for automotive use at a corner of the place. Bring nearby the shorted ends of the wires which are extended from the curtain shield airbag unit.

**WARNING:**

- Be sure to give a warning to other persons about a big noise that will be emitted at the time of the airbag deployment.

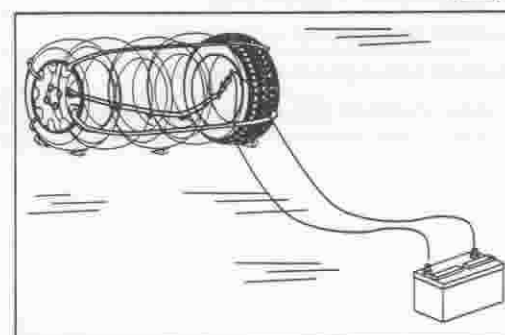


YAB00657

12. Disconnect the wire ends that have been shorted. Connect one wire to the positive terminal of the battery; the other wire to the negative terminal of the battery, thereby deploying the airbag.

**NOTE:**

- There is no need for identifying the polarity of the battery.

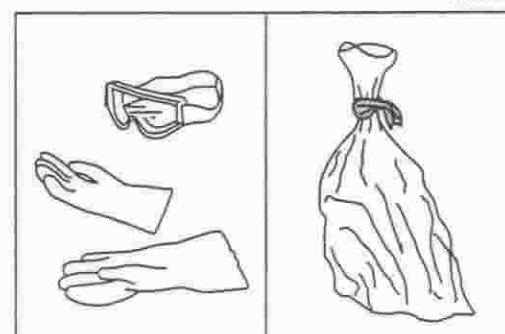


YAB00658

13. Since the metal section of the gas generator is extremely hot, leave it at least for thirty minutes to allow it to cool naturally. After the deployed airbag cools down completely, it shall be sealed in a bag to be disposed.

**WARNING:**

- Be sure to wear protective goggles and gloves during this operation. After completion of the operation, gargle and wash your hands. If you feel any abnormality in your respiratory organs, follow the instruction of a doctor.



YAB00659

## AB-90

### SSTs (Special service tool)

| Shape                                                                             | Part No.        | Part name                             | Use                                                                                      |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------------|------------------------------------------------------------------------------------------|
|  | 09991-87403-000 | Diagnosis check wire                  | To short the terminal T                                                                  |
|  | 09991-87404-000 | Engine control system inspection wire | Additional use for reading the diagnosis code                                            |
|  | 09991-97201-000 | Diagnosis check wire                  | To read the immobilizer diagnosis codes for checking ECU input/output signals (LED type) |

YAB00670

### TIGHTENING TORQUE

| Tightening component                                        | Tightening torque |           | Remarks    |
|-------------------------------------------------------------|-------------------|-----------|------------|
|                                                             | N·m               | kgf·cm    |            |
| Steering column x Support bracket (Lower side)              | 22.5 ± 4.9        | 230 ± 50  | Nut        |
| Steering column x Support bracket (Upper side)              | 21.1 ± 3.4        | 215 ± 35  | Bolt       |
| Steering wheel x Steering shaft                             | 34.3 ± 4.9        | 350 ± 50  | Nut        |
| Steering wheel x Steering wheel pad assembly                | 7.4 ± 2.2         | 75 ± 25   | TORX® bolt |
| Passenger's side air bag x Instrument panel                 | 8.1 ± 1.4         | 85 ± 15   | Bolt       |
| Passenger's side air bag x Instrument panel                 | 8.1 ± 1.4         | 85 ± 15   | Nut        |
| Airbag ECU x Body                                           | 19.2 ± 3.4        | 195 ± 35  | Bolt       |
| Side air bag x Front seat                                   | 24.0 ± 7.2        | 245 ± 75  | Nut        |
| Satellite sensor x Center pillar                            | 8.4 ± 1.4         | 85 ± 15   | Bolt       |
| Seatbelt pretensioner x Center pillar                       | 40.7 ± 12.3       | 415 ± 125 | Bolt       |
| Seatbelt pretensioner x Center pillar                       | 2.5 ± 1.0         | 25 ± 10   | Screw      |
| Curtain shield air bag x Front body pillar(Roof side inner) | 13.4 ± 1.9        | 135 ± 20  | Bolt       |

YABHY00095

