

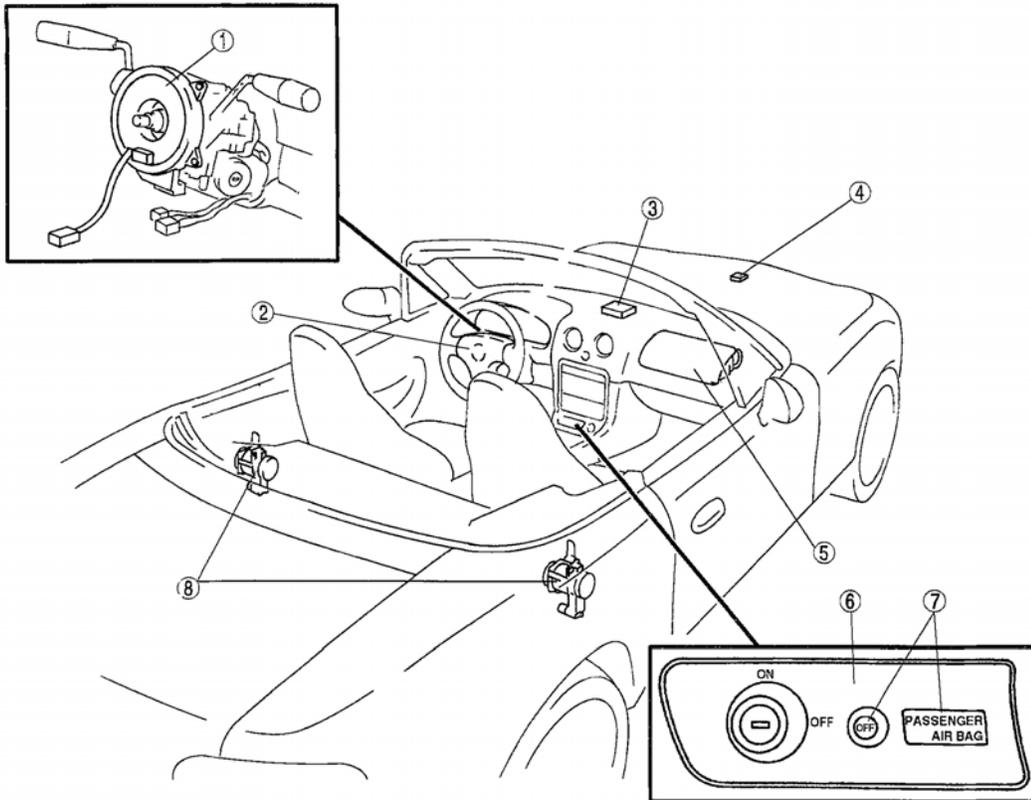
2005 Mazda MX-5 Miata

2005 RESTRAINTS Air Bag System - MX-5 Miata

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AIR BAG SYSTEM LOCATION INDEX



1	Clock spring (See CLOCK SPRING ADJUSTMENT) (See CLOCK SPRING REMOVAL/ INSTALLATION) (See CLOCK SPRING INSPECTION)
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3	SAS control module (See SAS CONTROL MODULE REMOVAL/INSTALLATION)
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Fig. 1: Identifying Air Bag System Components
Courtesy of MAZDA MOTORS CORP.

AIR BAG SYSTEM SERVICE WARNINGS

COMPONENT DISASSEMBLY

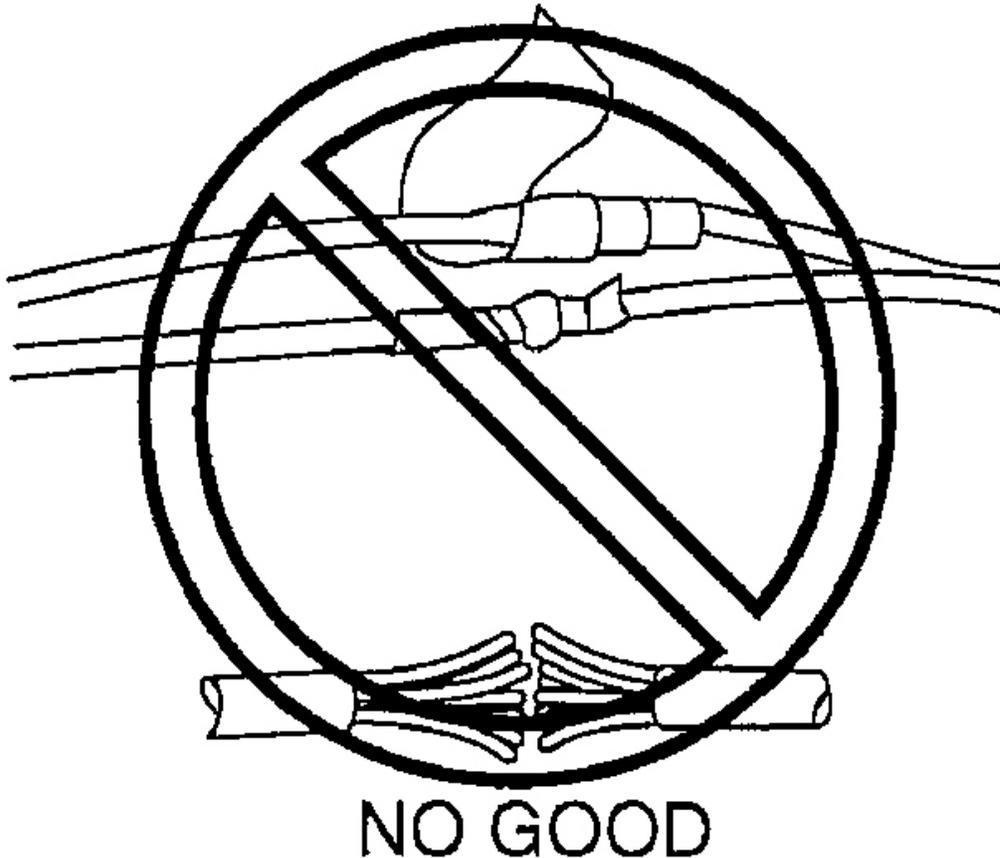
- **Disassembling and reassembling the components of the air bag system can render the system inoperative, which may result in serious injury or death in the event of an accident. Do not disassemble any air bag system component.**



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Fig. 2: Warning Against Disassembling Air Bag System Components
Courtesy of MAZDA MOTORS CORP.

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

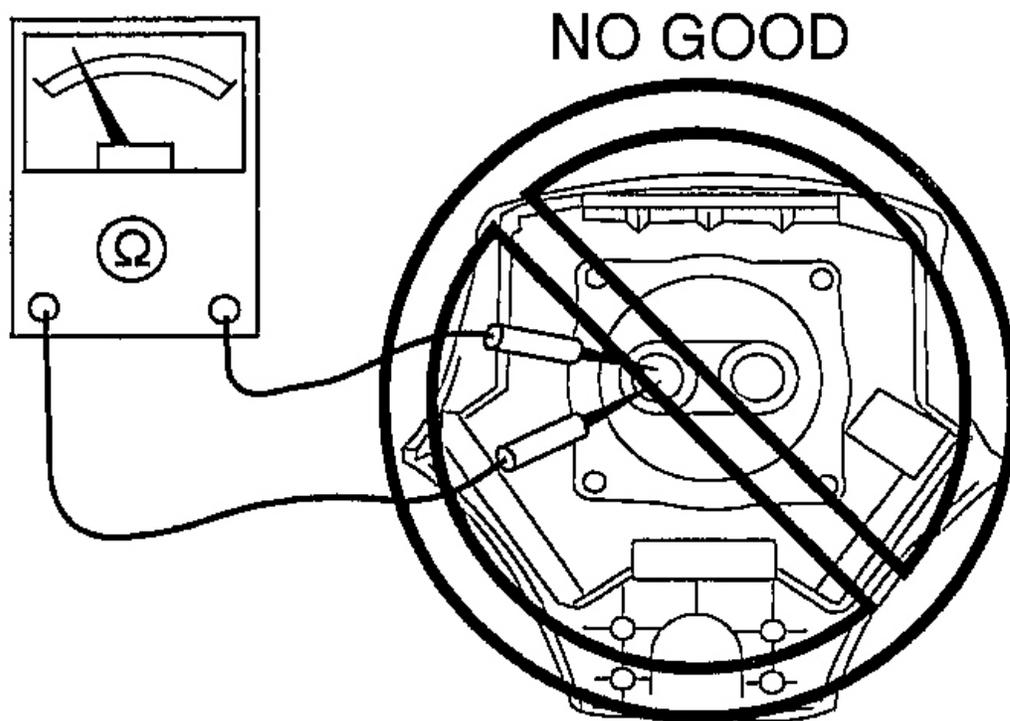


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Fig. 3: Identifying Incorrect Wiring Harness Repair
Courtesy of MAZDA MOTORS CORP.

AIR BAG MODULE INSPECTION

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

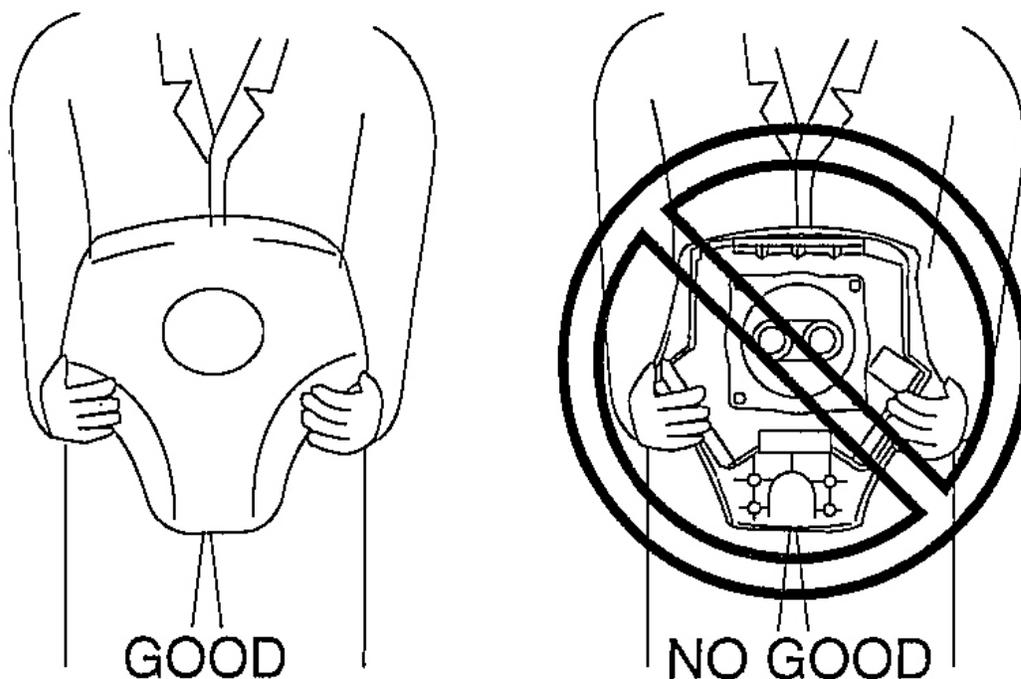


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Fig. 4: Inspecting Air Bag Module Incorrectly
Courtesy of MAZDA MOTORS CORP.

AIR BAG MODULE HANDLING

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



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Fig. 5: Identifying Proper Air Bag Module Carrying Method
Courtesy of MAZDA MOTORS CORP.

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

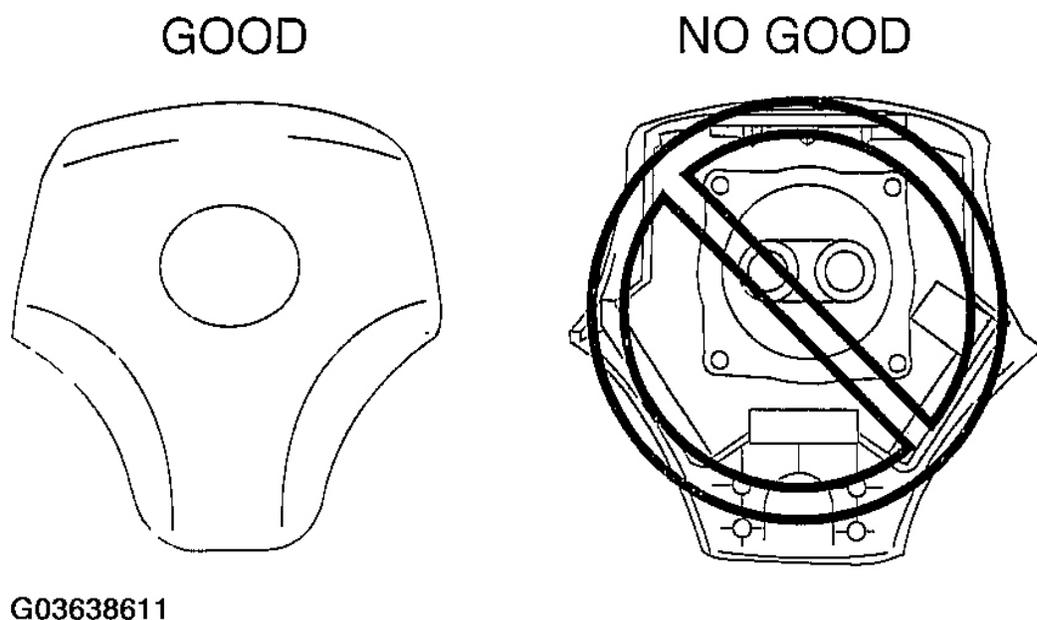


Fig. 6: Identifying Proper Air Bag Module Facing
 Courtesy of MAZDA MOTORS CORP.

SAS CONTROL MODULE HANDLING

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

CRUSH ZONE SENSOR HANDLING

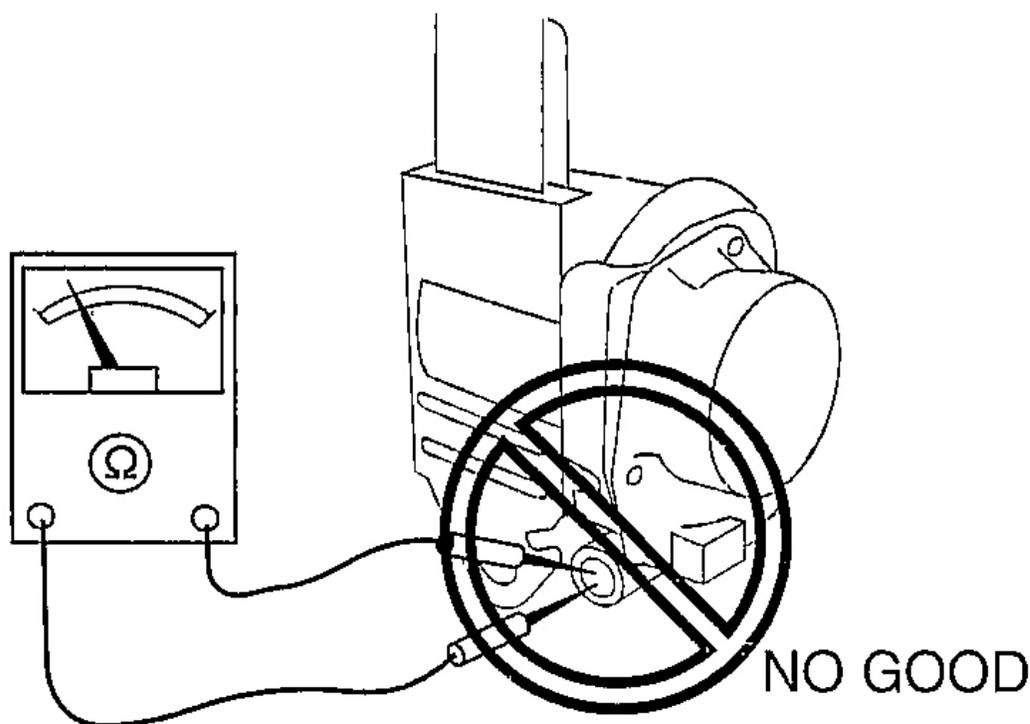
- **Disconnecting the crush zone sensor connector or removing the crush zone sensor with the ignition**

switch at ON position can cause the air bag modules and pre-tensioner seat belts to deploy, which may seriously injure you. Before disconnecting the crush zone sensor connector or removing the crush zone sensor, turn the ignition switch to LOCK position, then disconnect the negative battery cable and wait for more than 1 minute to allow the backup power supply of the SAS control module to deplete its stored power.

- If the crush zone sensor is subjected to shock or the sensor is disassembled, the air bag modules and pre-tensioner seat belts may operate (deploy) suddenly and cause injury, or it may fail to operate normally and cause a serious accident. Do not subject the crush zone sensor to shock or disassemble the sensor.

PRE-TENSIONER SEAT BELT INSPECTION

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

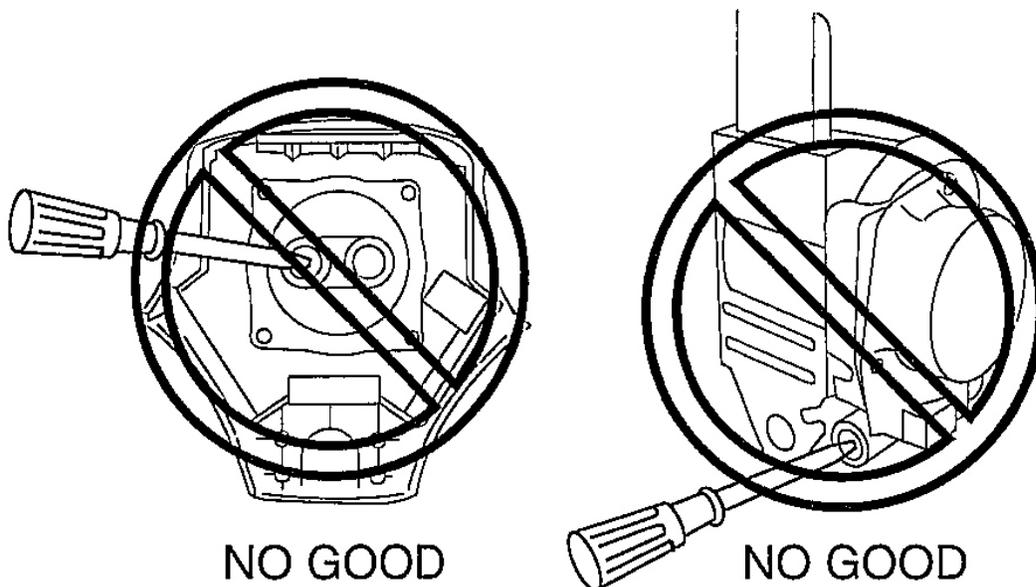


G03638612

Fig. 7: Identifying Improper Method For Inspecting Pre-Tensioner Seat Belt
Courtesy of MAZDA MOTORS CORP.

COMPONENT HANDLING

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



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Fig. 8: Warning Against Screwdriver Insertion
Courtesy of MAZDA MOTORS CORP.

COMPONENT REUSE

- Once an air bag module is deployed due to an accident or other causes, even if it does not have any external signs of damage, the air bag module may have been damaged internally which may cause improper operation. Improper operation may cause serious injury. Always self-check the undamaged air bag module or pre-tensioner seat belt to determine whether it can be reused. (See FOREWORD .)

DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION

WARNING:

- Handling the air bag module improperly can accidentally deploy the

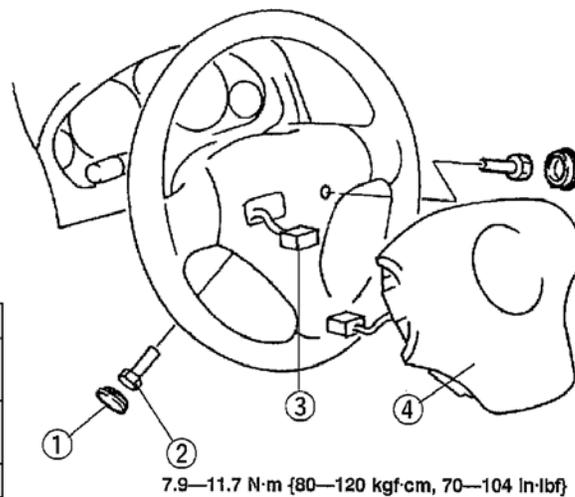
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air bag module and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling the air bag module. (See AIR BAG SYSTEM SERVICE WARNINGS.)

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

1	Cap
2	Bolt (See Bolt Installation Note)
3	Connector (See Connector Installation Note)
4	Driver-side air bag module



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Fig. 9: Removing Driver-Side Air Bag Module
Courtesy of MAZDA MOTORS CORP.

4. Install in the reverse order of removal.
5. Turn the ignition switch to ON position.
6. Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.
 - If the air bag system warning light remains on, off, or repeats flashing after servicing, there are malfunctions in the system. Carry out the inspection again. (See **FOREWORD** .)

CONNECTOR INSTALLATION NOTE

1. Install the connector as shown in **Fig. 10**.

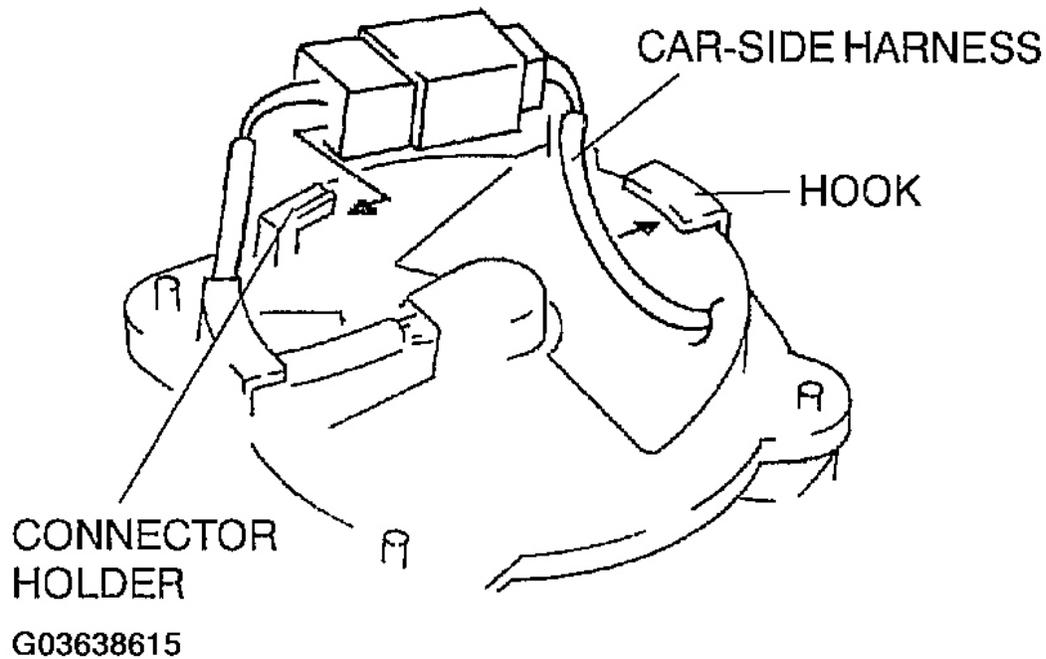
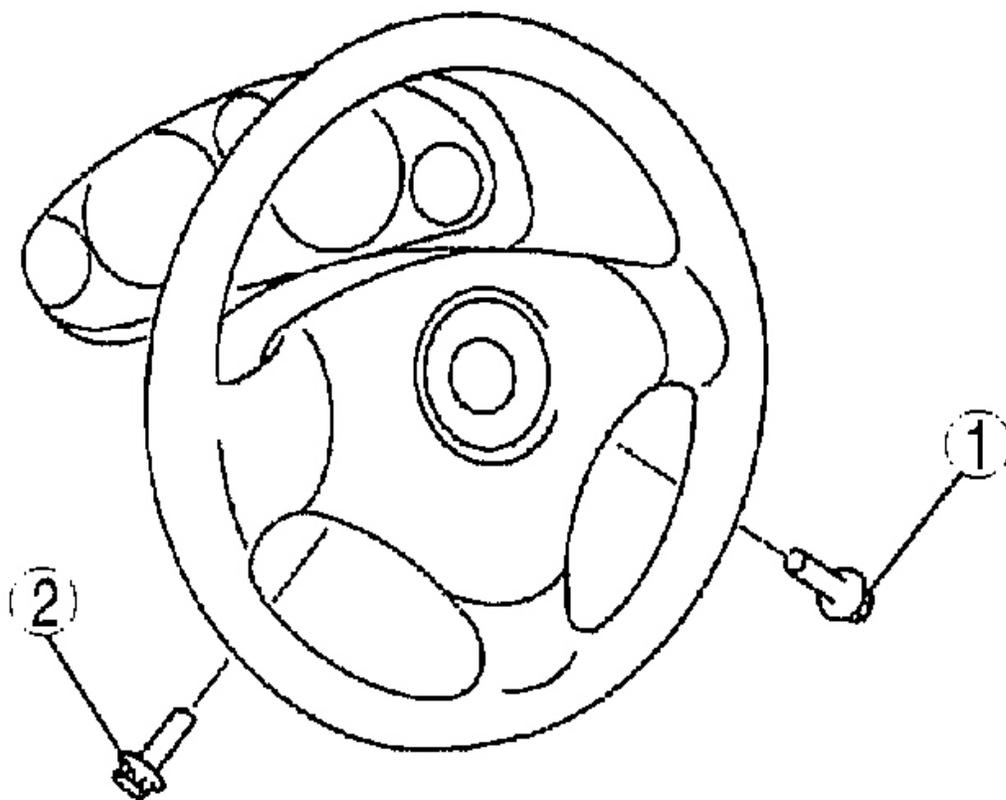


Fig. 10: Installing Connector
Courtesy of MAZDA MOTORS CORP.

BOLT INSTALLATION NOTE

1. Tighten the bolts in the order shown in **Fig. 11**.



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Fig. 11: Tightening Bolts
Courtesy of MAZDA MOTORS CORP.

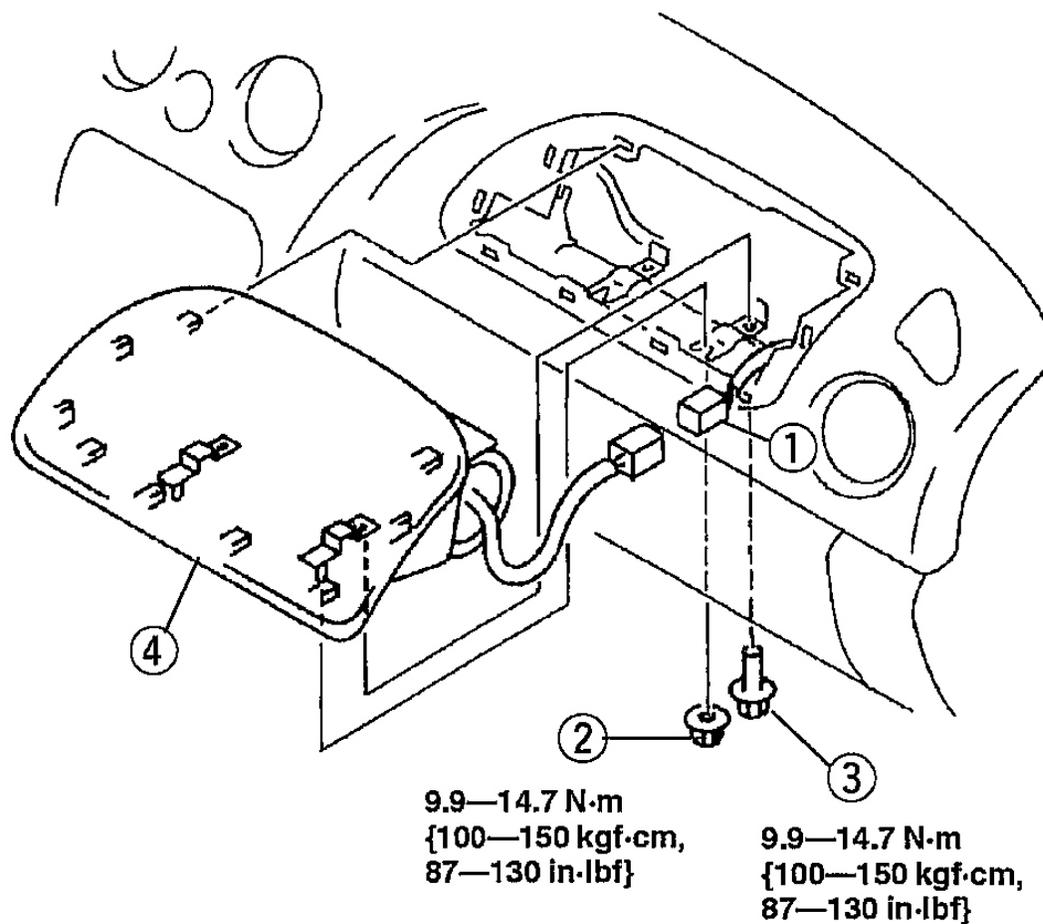
PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION

WARNING:

- Handling the air bag module improperly can accidentally deploy the air bag module and pre-tensioner seat belts, which may seriously injure you. Read **AIR BAG SYSTEM SERVICE WARNINGS** before handling the air bag module. (See **AIR BAG SYSTEM SERVICE WARNINGS.**)

1. Turn the ignition switch to LOCK position.
2. Disconnect the negative battery cable and wait for **more than 1 minute** to allow the backup power supply of the SAS control module to deplete its stored power.
3. Remove the glove compartment.

4. Remove in the order indicated in the table.



1	Connector (See Connector Installation Note)
2	Nut
3	Bolt
4	Passenger-side air bag module

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Fig. 12: Removing Glove Compartment
Courtesy of MAZDA MOTORS CORP.

5. Install in the reverse order of removal.
6. Turn the ignition switch to ON position.

7. Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.
 - If the air bag system warning light remains on, off, or repeats flashing after servicing, there are malfunctions in the system. Carry out the inspection again. (See **DTC TABLE** .)

CONNECTOR INSTALLATION NOTE

1. Connect the connector, then install it as shown in **Fig. 13**.

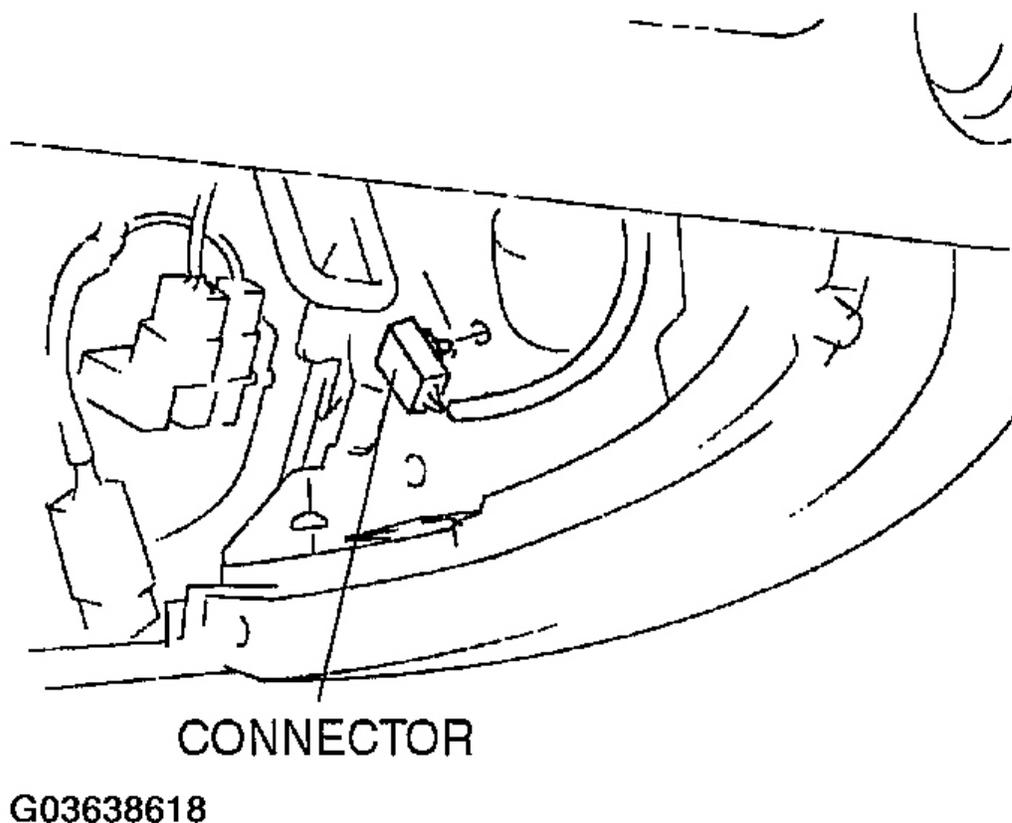


Fig. 13: Installing Connector
Courtesy of MAZDA MOTORS CORP.

CLOCK SPRING ADJUSTMENT

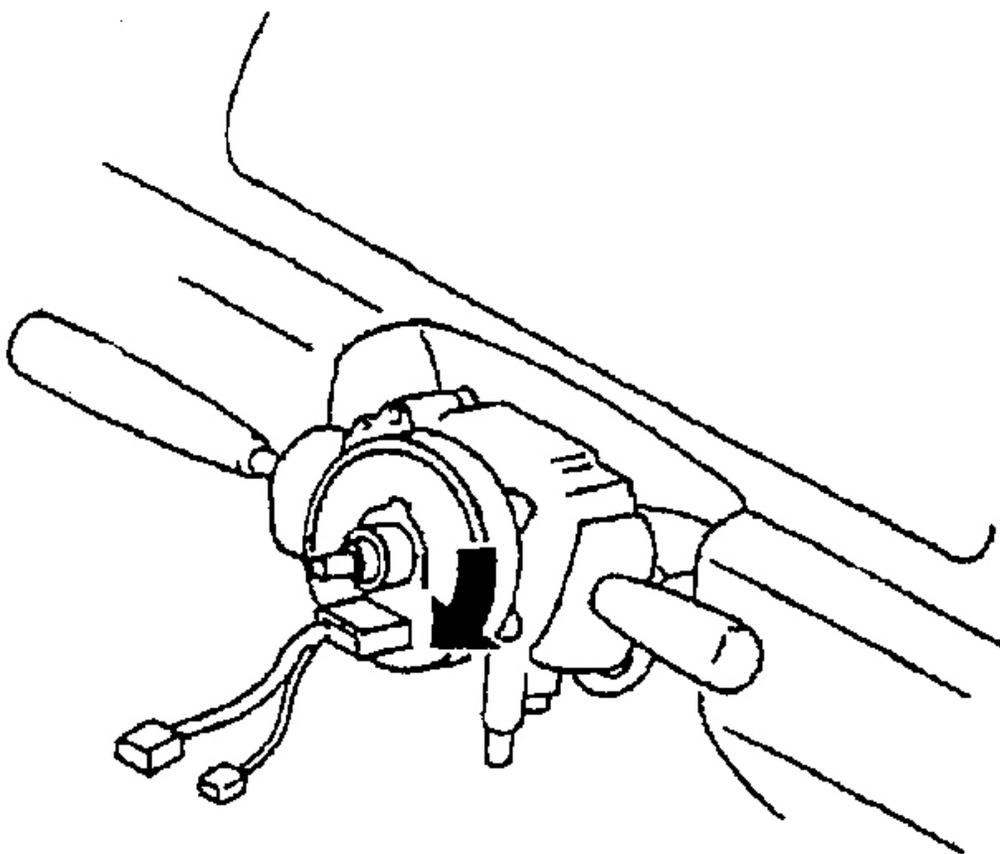
- NOTE:**
- The adjustment procedure is also specified on the caution label of the clock spring.

1. Set the front wheels straight ahead.

CAUTION:

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

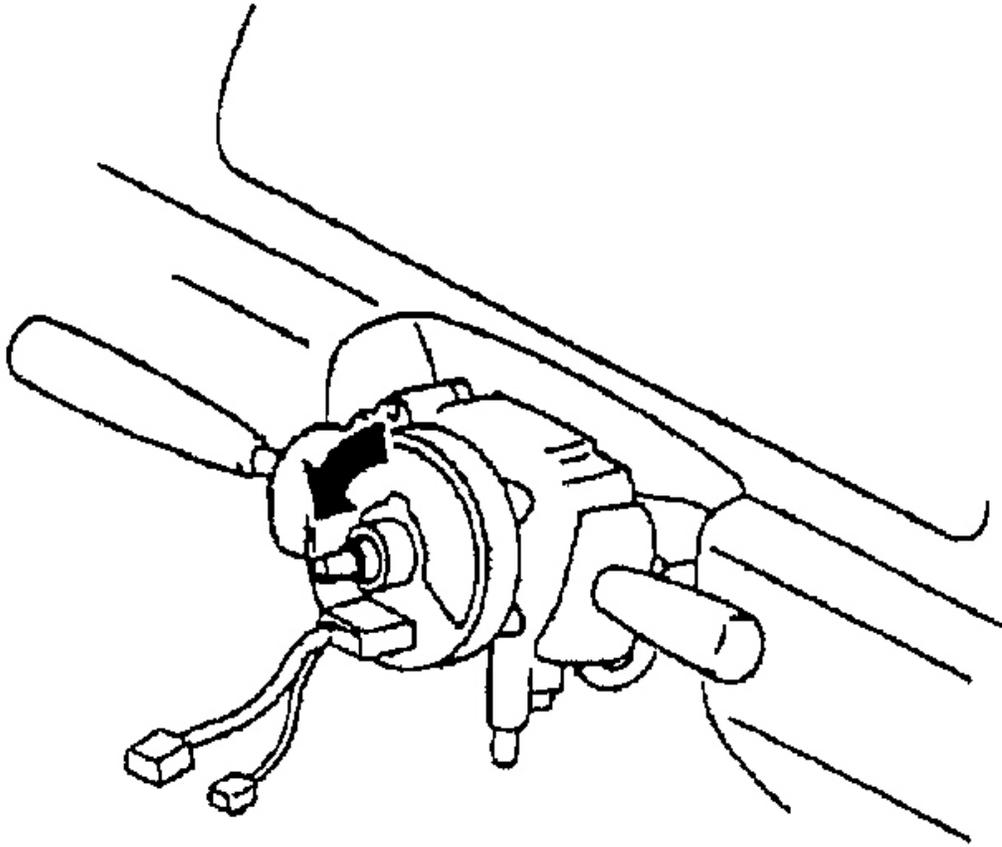
2. Turn the clock spring clockwise until it stops.



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Fig. 14: Turning Clock Spring Clockwise Until Stops
Courtesy of MAZDA MOTORS CORP.

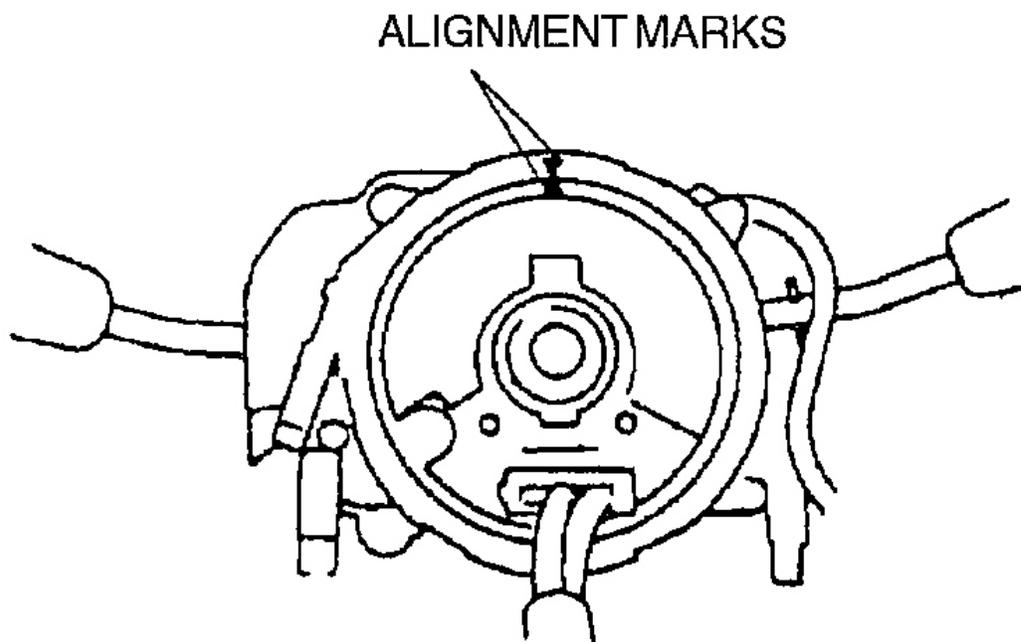
3. Turn the clock spring counterclockwise $2 \frac{3}{4}$ turns.



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Fig. 15: Turning Clock Spring Counterclockwise
Courtesy of MAZDA MOTORS CORP.

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

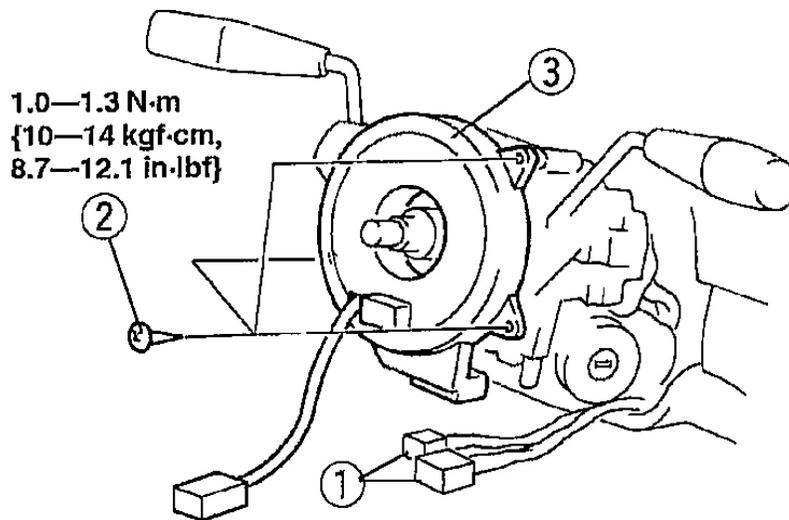


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Fig. 16: Aligning Mark On Clock Spring With Mark On Outer Housing
Courtesy of MAZDA MOTORS CORP.

CLOCK SPRING REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the column cover.
3. Remove the driver-side air bag module. (See **DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.**)
4. Remove the steering wheel. (See **STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION .**)
5. Remove in the order indicated in the table.



1	Connector
2	Screw
3	Clock spring

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Fig. 17: Removing Clock Spring - With Torque Specification
 Courtesy of MAZDA MOTORS CORP.

6. Install in the reverse order of removal.

CLOCK SPRING INSPECTION

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

NOTE:

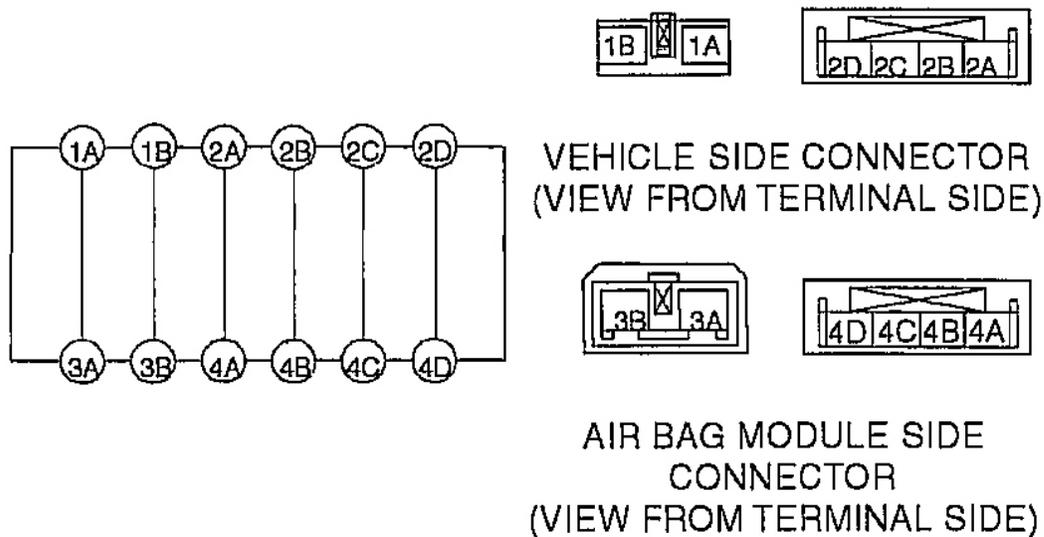
- When terminals 3A and 3B are disconnected from the vehicle's main harness, they are shorted to prevent unexpected air bag deployment.

○—○ : Continuity

Step	Terminal											
	1A	1B	2A	2B	2C	2D	3A	3B	4A	4B	4C	4D
1	○						○					
2		○						○				
3			○						○			
4				○						○		
5					○						○	
6						○						○

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Fig. 18: Clock Spring Terminal Continuity Table
 Courtesy of MAZDA MOTORS CORP.

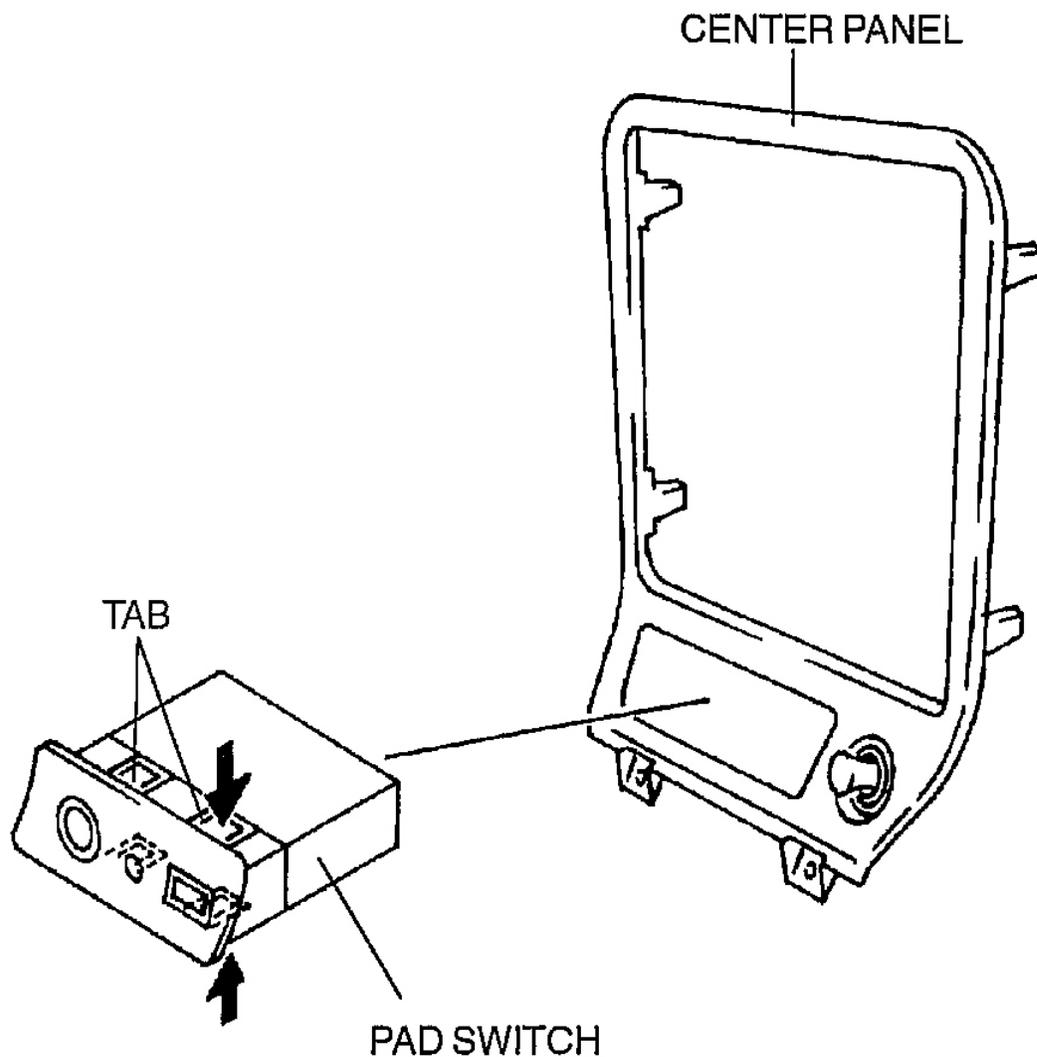


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Fig. 19: Identifying Clock Spring Terminal Connectors
Courtesy of MAZDA MOTORS CORP.

PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the center panel. (See **CENTER PANEL REMOVAL/INSTALLATION** .)
3. Push the tabs of PAD switch and pull the switch out.



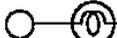
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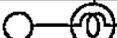
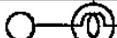
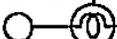
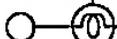
Fig. 20: Removing PAD Switch
 Courtesy of MAZDA MOTORS CORP.

4. Install in the reverse order of removal.

PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH INSPECTION

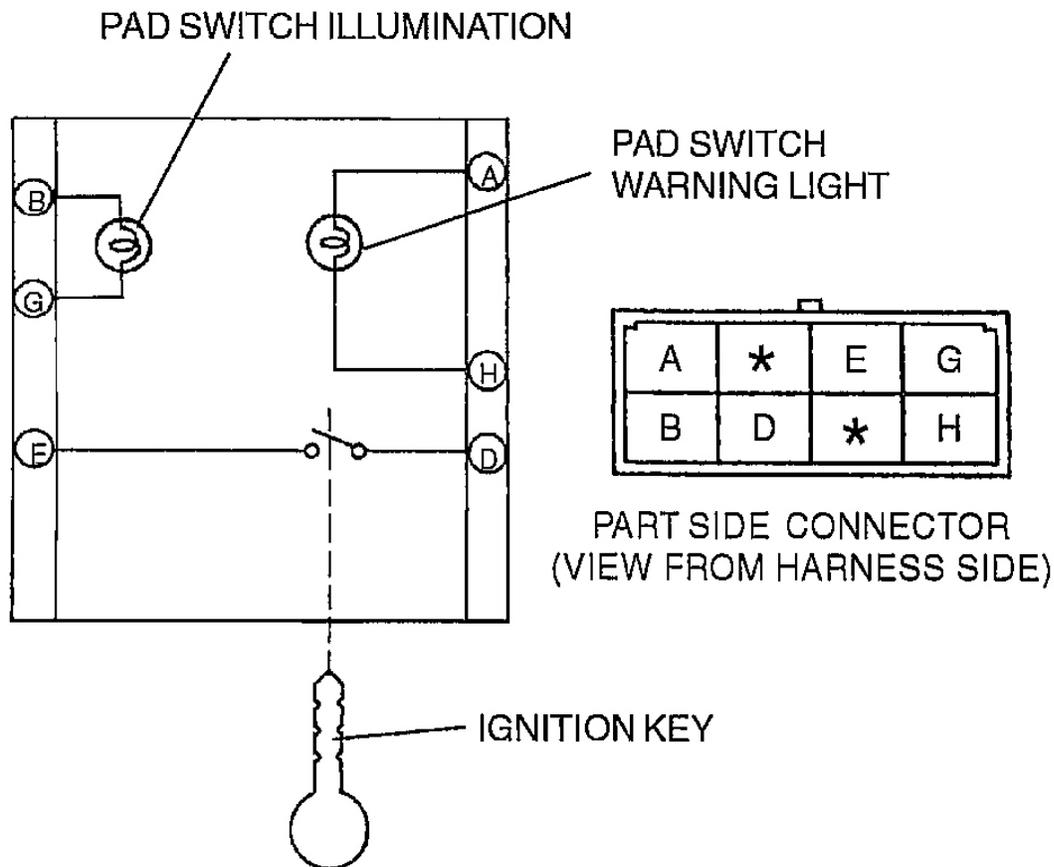
1. Disconnect the negative battery cable.
2. Remove the center panel. (See CENTER PANEL REMOVAL/INSTALLATION .)
3. Confirm that the PAD switch warning light bulb and the PAD switch illumination bulb are okay.
 - If the bulbs go out, replace them with new ones.
4. Inspect for continuity between PAD switch terminals using an ohmmeter.
 - If not as specified, replace the PAD switch.

 : Continuity
  : Bulb

Switch position	Terminal					
	A	H	B	G	D	E
ON						
OFF						

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Fig. 21: Passenger Air Bag Deactivation Terminal Continuity Table
 Courtesy of MAZDA MOTORS CORP.



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Fig. 22: Identifying Passenger Air Bag Terminal Connectors
Courtesy of MAZDA MOTORS CORP.

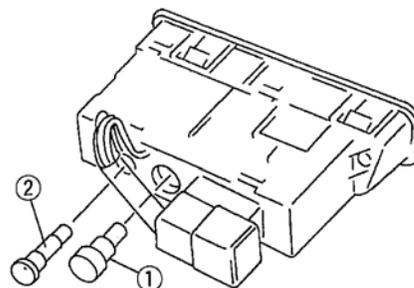
PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH WARNING LIGHT BULB AND PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH ILLUMINATION BULB REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.
2. Remove the center panel. (See **CENTER PANEL REMOVAL/INSTALLATION** .)
3. Remove in the order indicated in the table.

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1	PAD switch warning light bulb
2	PAD switch illumination bulb



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Fig. 23: Removing PAD Switch Warning Light Bulb And PAD Switch Illumination Bulb
Courtesy of MAZDA MOTORS CORP.

4. Install in the reverse order of removal.

SAS CONTROL MODULE REMOVAL/INSTALLATION

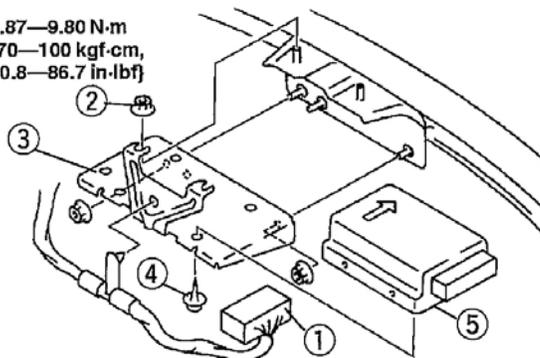
WARNING:

- Handling the SAS control module improperly can accidentally deploy the air bag modules and pre-tensioner seat belts, which may seriously injure you. Read **AIR BAG SYSTEM SERVICE WARNINGS** before handling the SAS control module. (See **AIR BAG SYSTEM SERVICE WARNINGS**.)

1. Turn the ignition switch to the LOCK position.
2. Disconnect the negative battery cable and wait for **more than 1 minute**.
3. Remove the dashboard. (See **CENTER PANEL REMOVAL/INSTALLATION**.)
4. Remove in the order indicated in the table.

1	Connector
2	Nut (See Nut Installation Note)
3	Bracket
4	Screw
5	SAS control module

6.87—9.80 N·m
{70—100 kgf·cm,
60.8—86.7 in·lbf}



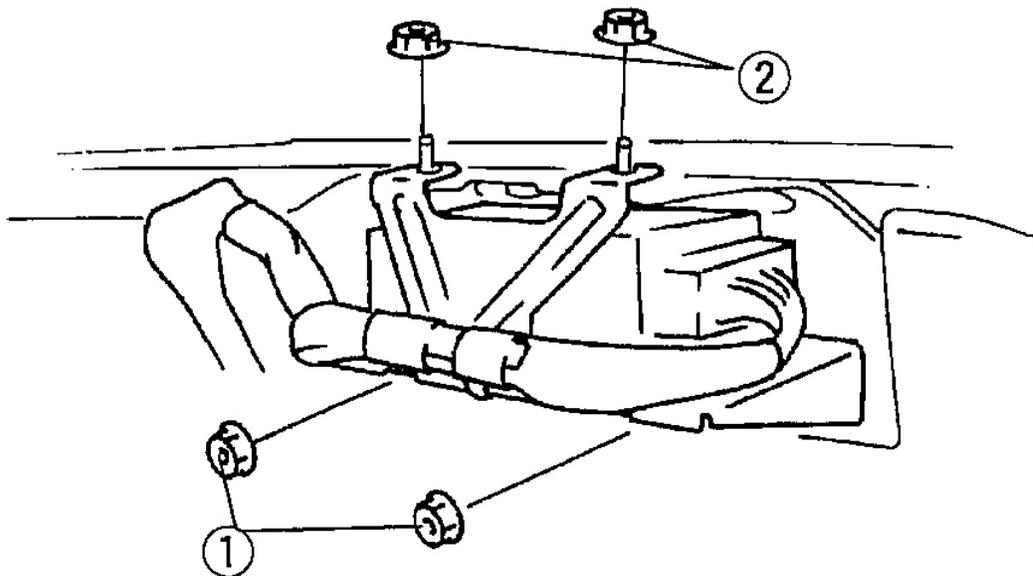
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Fig. 24: Removing SAS Control Module - With Torque Specifications
Courtesy of MAZDA MOTORS CORP.

5. Install in the reverse order of removal.
6. Turn the ignition switch to ON position.
7. Verify that the air bag system warning light illuminates for **approximately 6 seconds** and then goes off.
 - If the air bag system warning light remains on, off, or repeats flashing after servicing, there are malfunctions in the system. Carry out the inspection again. (See **FOREWORD** .)

NUT INSTALLATION NOTE

1. Tighten the nuts in the order shown in **Fig. 25**.



G03638630

Fig. 25: Tightening SAS Control Module Nuts In Order
Courtesy of MAZDA MOTORS CORP.

CRUSH ZONE SENSOR REMOVAL/INSTALLATION

WARNING:

- Handling the crush zone sensor improperly can accidentally deploy the air bag modules and pre-tensioner seat belts, which may seriously injure you. Read **AIR BAG SYSTEM SERVICE WARNINGS** before handling the crush zone sensor. (See **AIR BAG SYSTEM SERVICE WARNINGS**.)

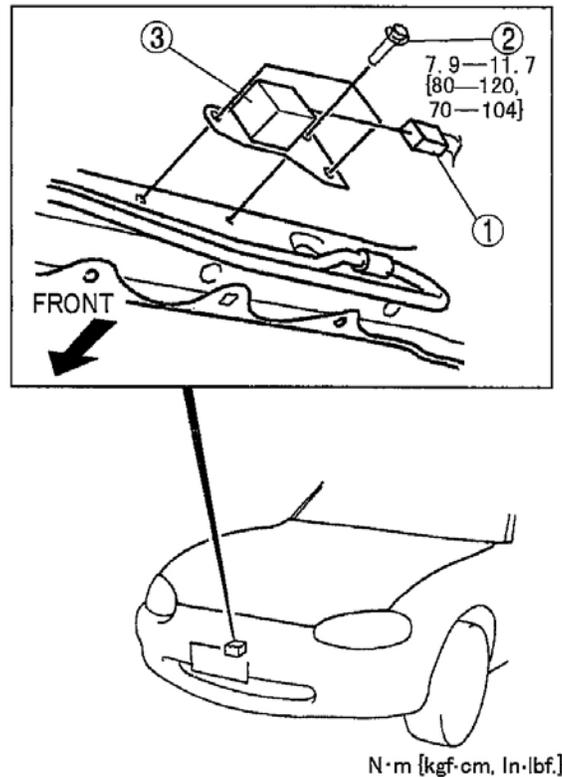
1. Turn the ignition switch to LOCK position.

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2. Disconnect the negative battery cable and wait for **more than 1 minute**.
3. Remove in the order indicated in the table.

1	Connector
2	Bolt (See Bolt Installation Note)
3	Crush zone sensor



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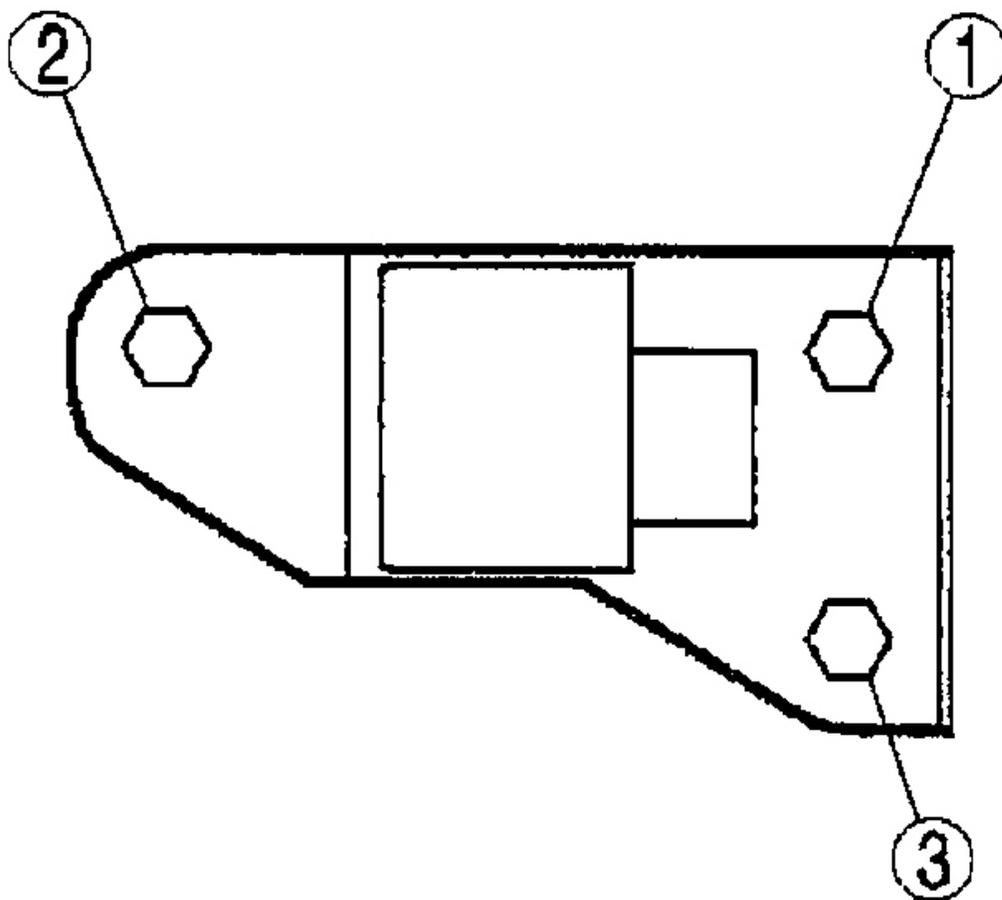
Fig. 26: Removing Crush Zone Sensor - With Torque Specifications

Courtesy of MAZDA MOTORS CORP.

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

Bolt Installation Note

1. Tighten the bolts in the order shown in **Fig. 27**.



G03638632

Fig. 27: Tightening Crush Zone Sensor Bolts In Order
Courtesy of MAZDA MOTORS CORP.

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

1. After installing a new SAS control module, verify that the air bag system warning light flashes continuously **approximately 6 seconds** after the ignition switch is turned to ON position.
 - If a diagnostic trouble code is indicated, perform the appropriate AIR BAG SYSTEM ON-BOARD DIAGNOSTIC. (See **FOREWORD** .)
2. Turn the ignition switch to LOCK position then back to ON position while the air bag system warning light is flashing continuously.

- If the procedures have been performed correctly, the air bag system warning light illuminates, then goes off after **approximately 6 seconds**.
- If it does not go off, perform the deployment authorization procedure again.

AIR BAG MODULE DEPLOYMENT PROCEDURE

WARNING:

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

NOTE:

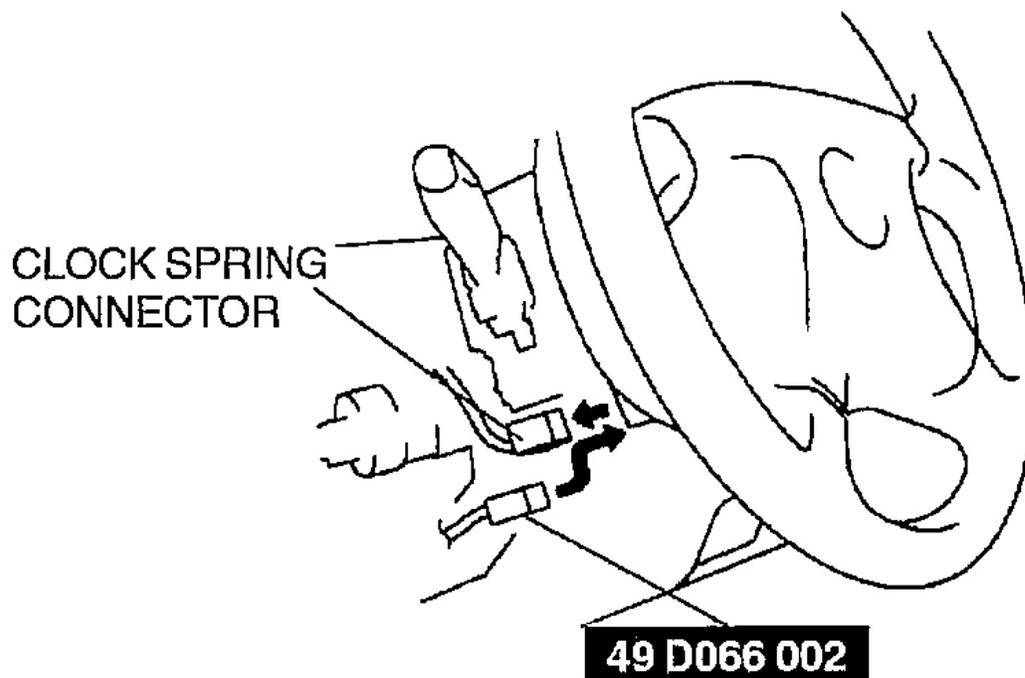
- When disposing of a deployed air bag module and pre-tensioner seat belt, refer to Air Bag Module and Pre-tensioner Seat Belt Disposal Procedure. (See AIR BAG MODULE AND PRE-TENSIONER SEAT BELT DISPOSAL PROCEDURES.)

DEPLOYMENT PROCEDURES FOR INSIDE OF VEHICLE

1. Inspect the **SST** (Deployment Tool). (See INSPECTION OF SST (DEPLOYMENT TOOL).)
2. Move the vehicle to an open space, away from strong winds, and close all of the vehicle's doors and windows.
3. Turn the ignition switch to LOCK position.
4. Disconnect the negative battery cable and wait for **more than 1 minute** to allow the backup power supply of the SAS control module to deplete its stored power.

Driver-side air bag module

1. Remove the column cover.
2. Disconnect the clock spring connector.
3. Connect the **SST** (Adapter Harness) to the clock spring as shown in Fig. 28.



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Fig. 28: Connecting Adapter Harness To Clock Spring
Courtesy of MAZDA MOTORS CORP.

4. Connect the SST (Deployment Tool) to the SST (Adapter Harness).

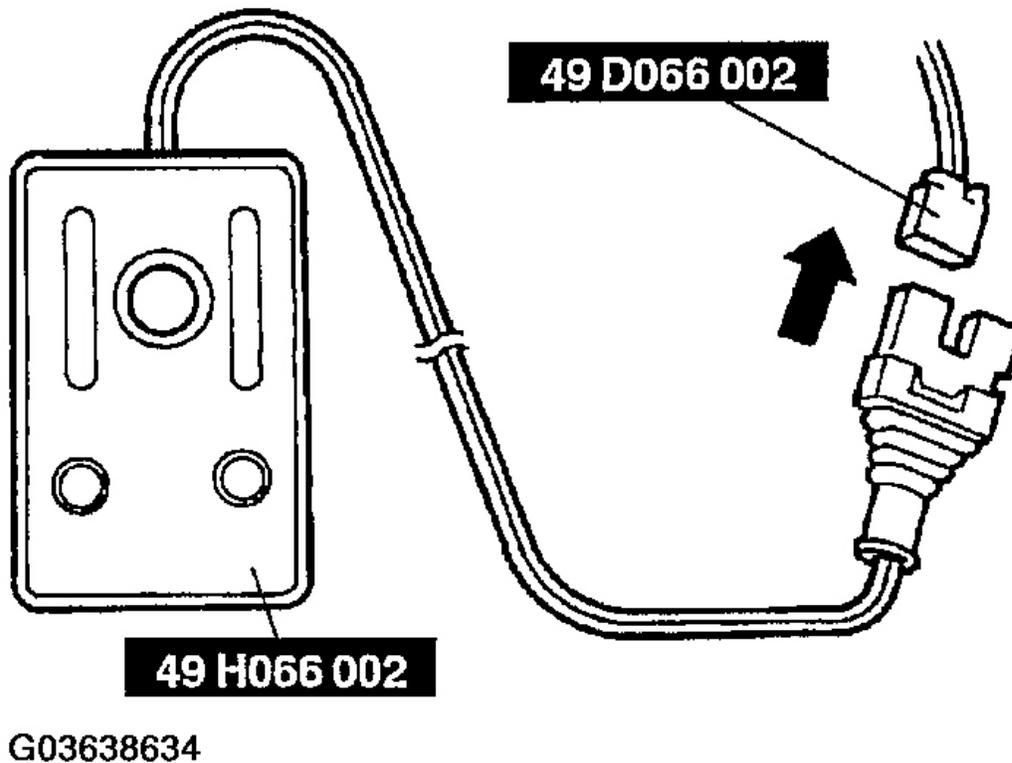


Fig. 29: Connecting Deployment Tool To Adapter Harness
Courtesy of MAZDA MOTORS CORP.

5. Connect the red clip of the **SST** (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
6. Verify that the red light on the **SST** (Deployment Tool) is illuminated.
7. Make sure all persons are standing **at least 6 m {20 ft}** away from the vehicle.
8. Press the activation switch on the **SST** (Deployment Tool) to deploy the driver-side air bag module.

Passenger-side air bag module

1. Remove the glove compartment.
2. Disconnect the passenger-side air bag module connector.
3. Connect the **SST** (Adapter Harness) to the passenger-side air bag module as shown in **Fig. 30**.

PASSENGER-SIDE
AIR BAG MODULE
CONNECTOR

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Fig. 30: Connecting Adapter Harness To Passenger-Side Air Bag Module
Courtesy of MAZDA MOTORS CORP.

4. Connect the **SST** (Deployment Tool) to the **SST** (Adapter Harness).

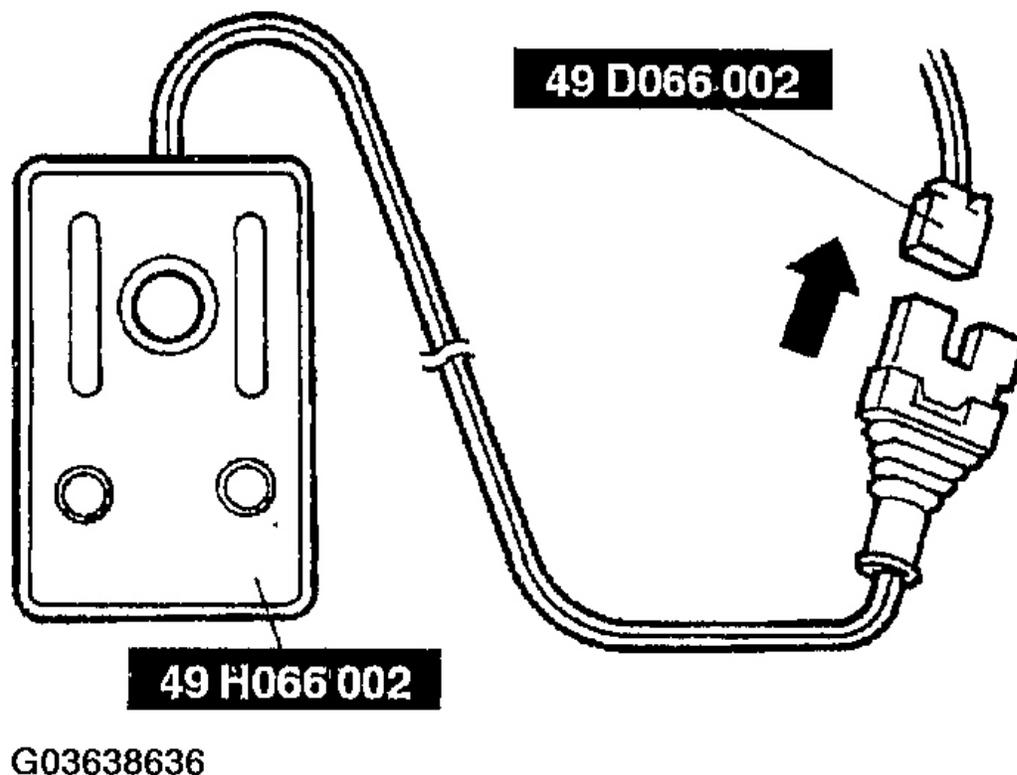


Fig. 31: Connecting Deployment Tool To Adapter Harness
Courtesy of MAZDA MOTORS CORP.

5. Connect the red clip of the SST (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
6. Verify that the red light on the SST (Deployment Tool) is illuminated.
7. Make sure all persons are standing **at least 6 m {20 ft}** away from the vehicle.
8. Press the activation switch on the SST (Deployment Tool) to deploy the passenger-side air bag module.

Pre-tensioner seat belt

1. Remove the quarter trim.
2. Remove the pre-tensioner seat belt and connect the SST (Adapter Harness) to it as shown in **Fig. 32**.

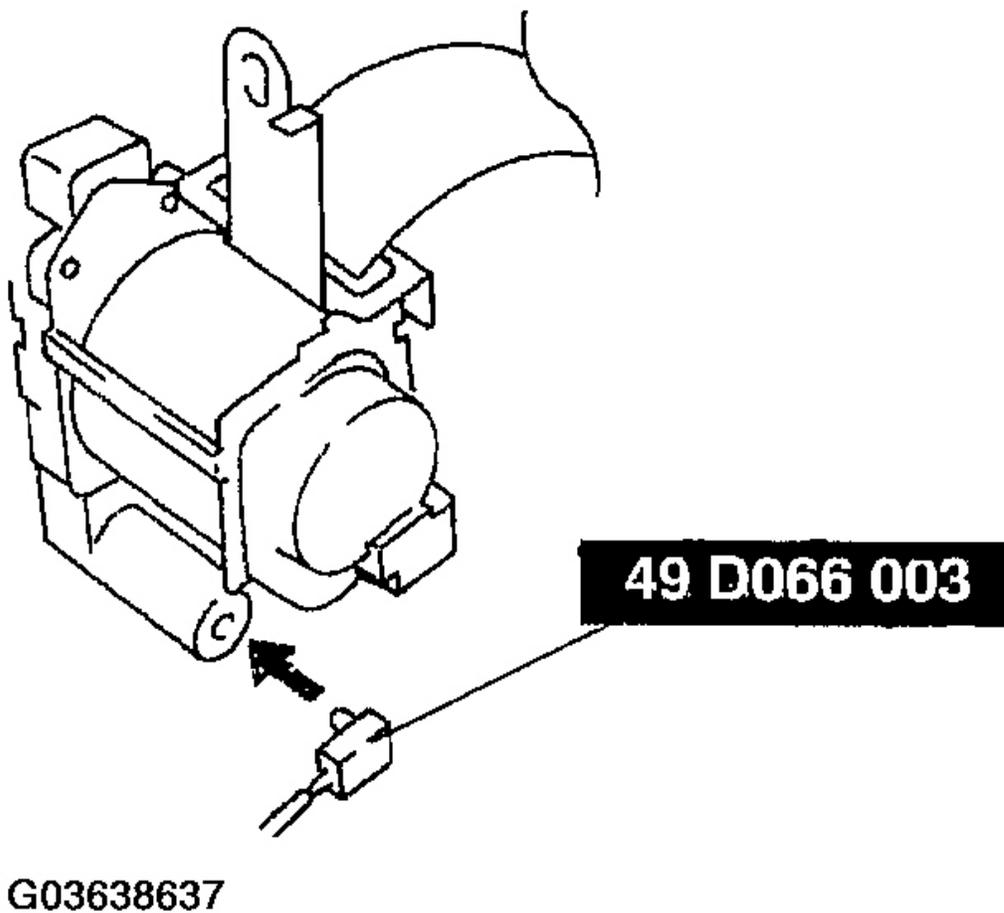


Fig. 32: Connecting Adapter Harness To Pre-Tensioner Seat Belt
Courtesy of MAZDA MOTORS CORP.

3. Install the pre-tensioner seat belt.
4. Connect the SST (Deployment Tool) to the SST (Adapter Harness).

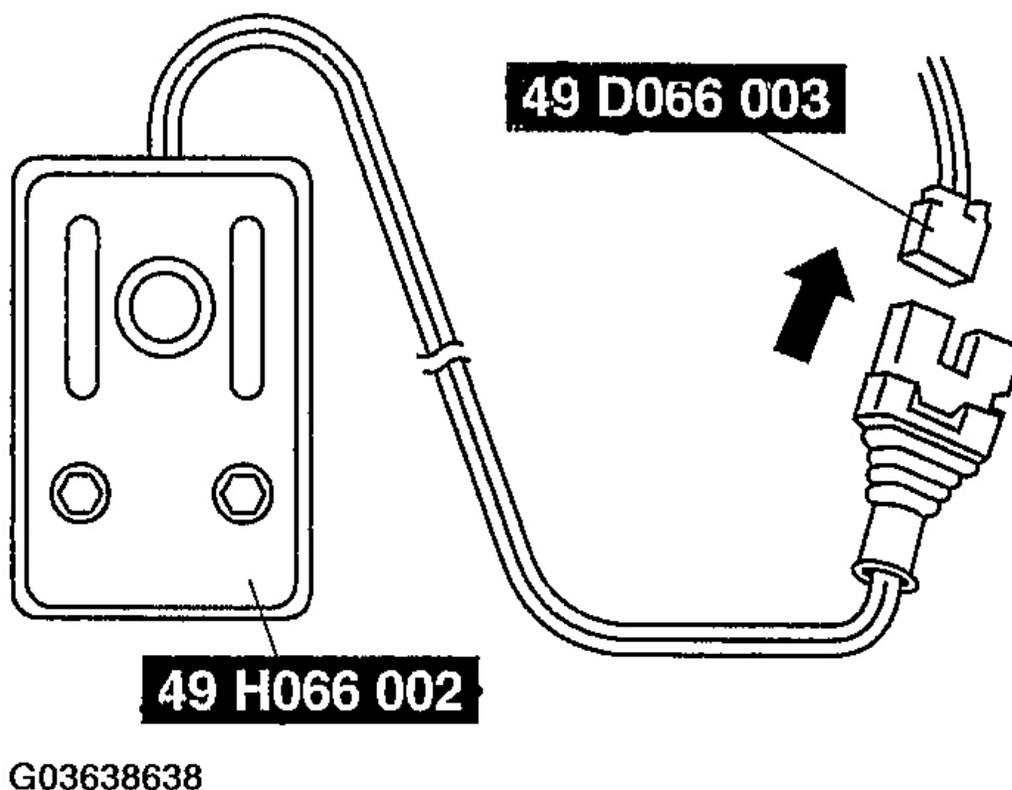


Fig. 33: Connecting Deployment Tool To Adapter Harness
 Courtesy of MAZDA MOTORS CORP.

5. Connect the red clip of the SST (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
6. Verify that the red light on the SST (Deployment Tool) is illuminated.
7. Make sure all persons are standing **at least 6 m {20 ft}** away from the vehicle.
8. Press the activation switch on the SST (Deployment Tool) to deploy the pre-tensioner seat belt.

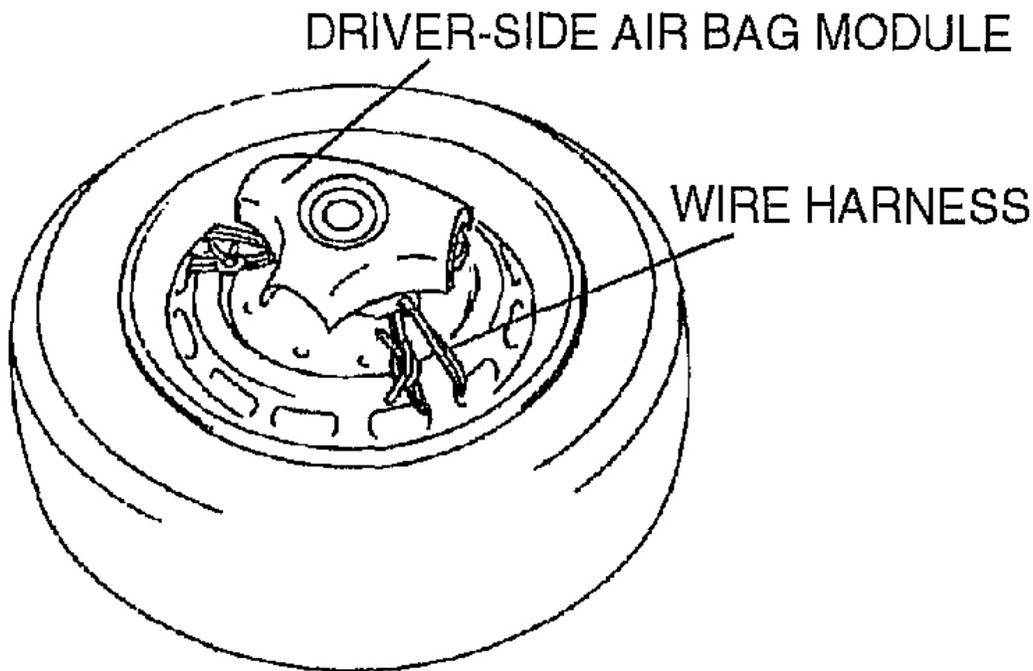
DEPLOYMENT PROCEDURES FOR OUTSIDE OF VEHICLE

1. Inspect the SST (Deployment Tool). (See INSPECTION OF SST (DEPLOYMENT TOOL).)
2. Turn the ignition switch to LOCK position.
3. Disconnect the negative battery cable and wait for **more than 1 minute** to allow the backup power supply of the SAS control module to deplete its stored power.

1. Remove the driver-side air bag module. (See **DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.**)
2. Place the driver-side air bag module on the center of the wheel with the module facing up. See **Fig. 34.**
 - To secure the air bag module to the tire wheel, wrap the wire harness through the wheel and the bolt installation hole **at least 4 times.**

WARNING:

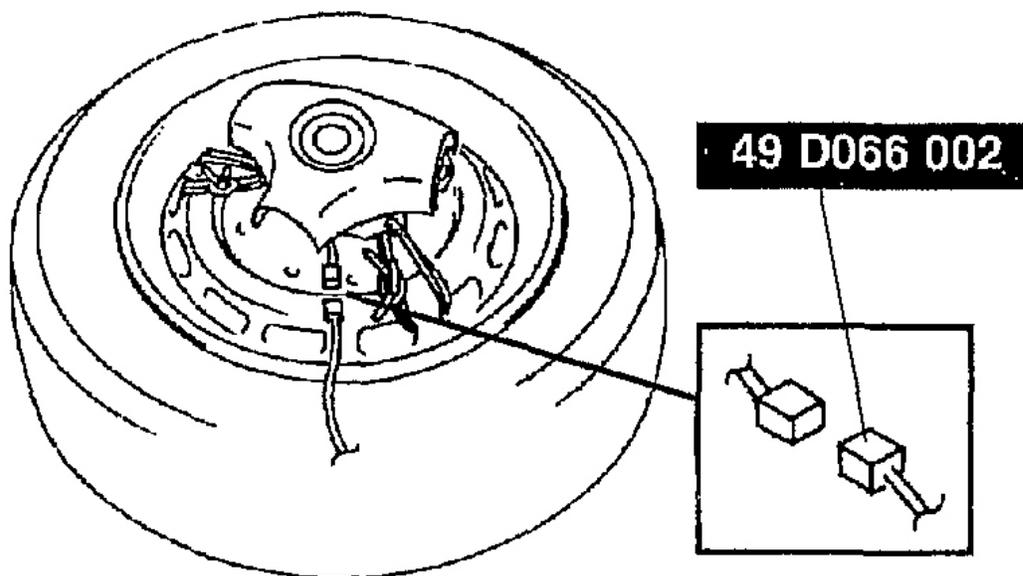
- If the air bag module is not properly installed to the wheel, serious injury may occur when the module is deployed. When installing the air bag module to the wheel, make sure the module is facing up.



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Fig. 34: Placing Driver-Side Air Bag Module On Center Of Wheel With Module Facing Up
Courtesy of MAZDA MOTORS CORP.

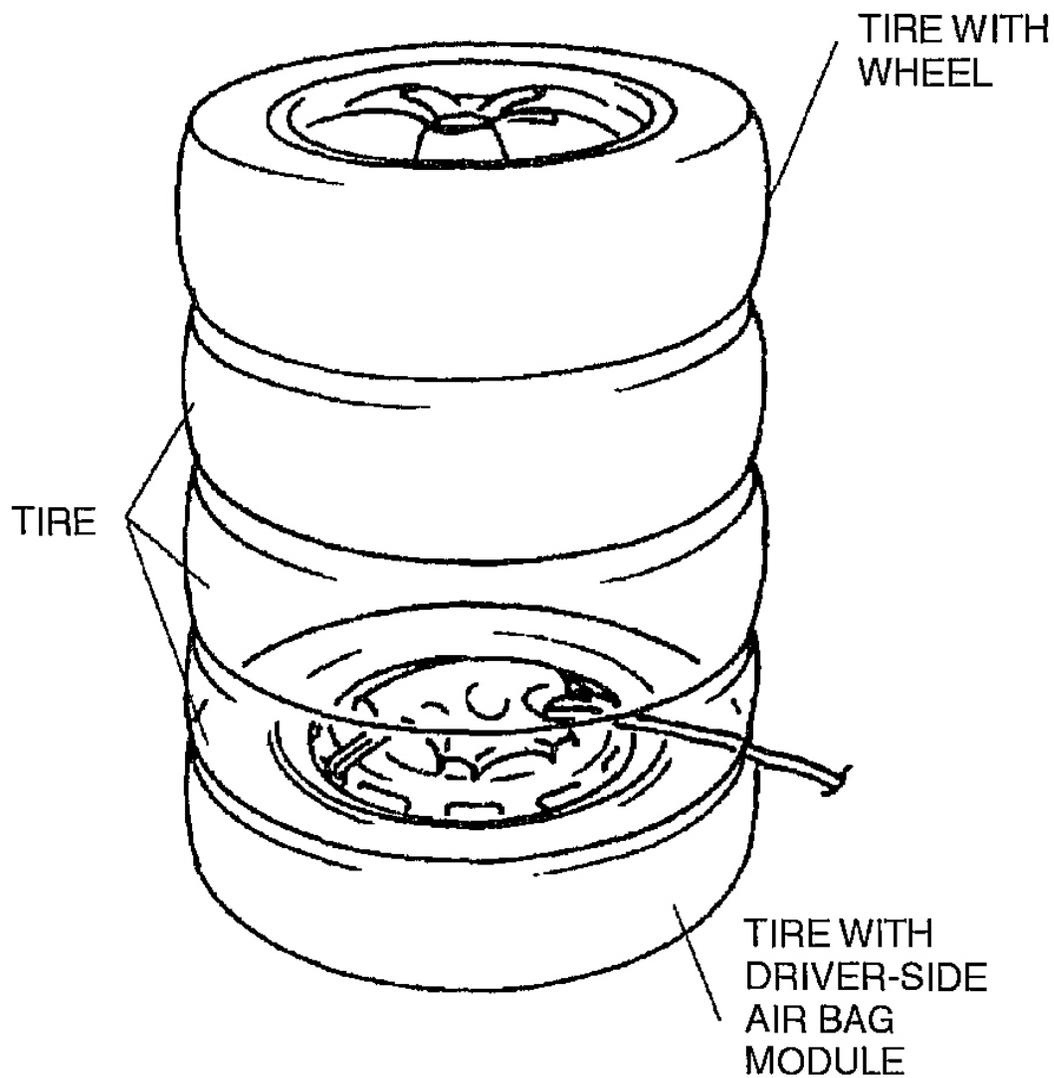
3. Connect the SST (Adapter Harness) to the driver-side air bag module as shown in **Fig. 35.**



G03638640

Fig. 35: Connecting Adapter Harness To Driver-Side Air Bag Module
Courtesy of MAZDA MOTORS CORP.

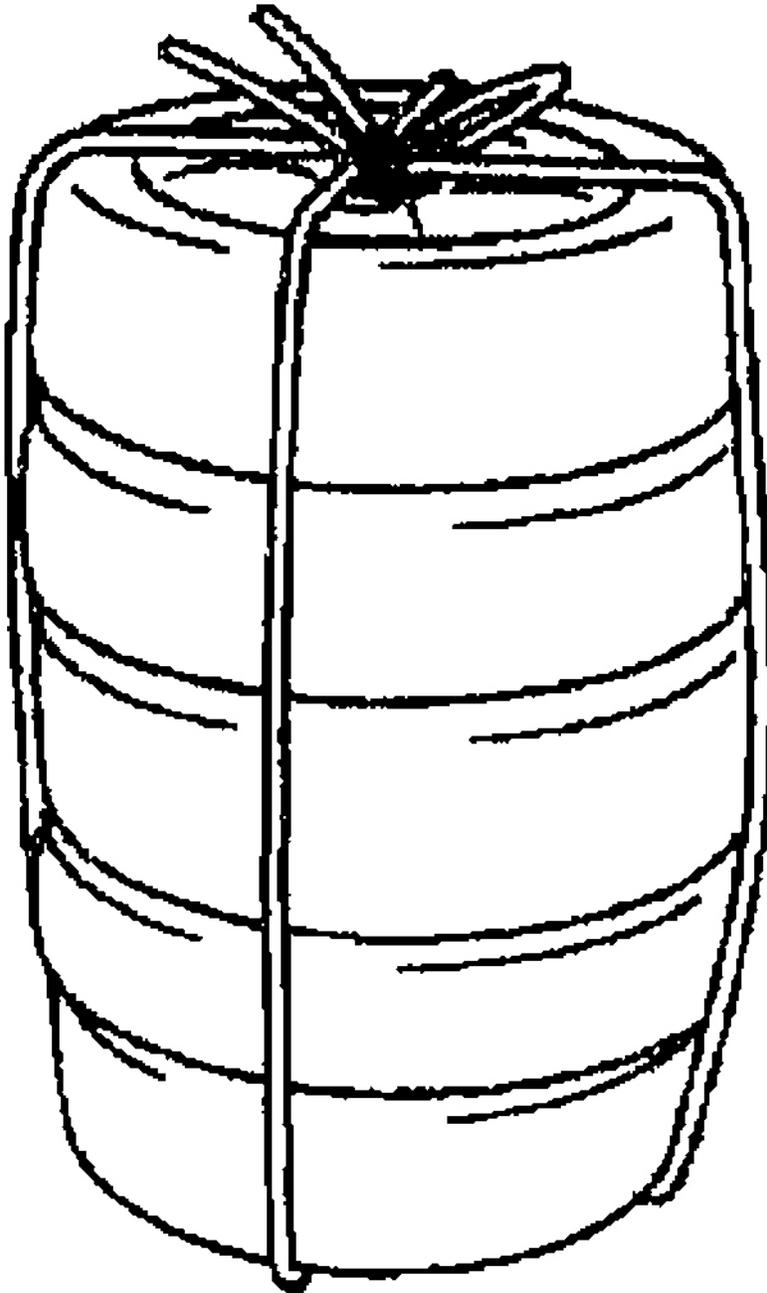
4. Stack three tires on top of the tire with the air bag module. Stack another tire that has a wheel on top of the four tires.



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Fig. 36: Stacking Tires - For Driver-Side Air Bag Module
Courtesy of MAZDA MOTORS CORP.

5. Tie all tires together with wire.



G03638642

Fig. 37: Tying Tires Together With Wire
Courtesy of MAZDA MOTORS CORP.

6. Connect the SST (Deployment Tool) to the SST (Adapter Harness).

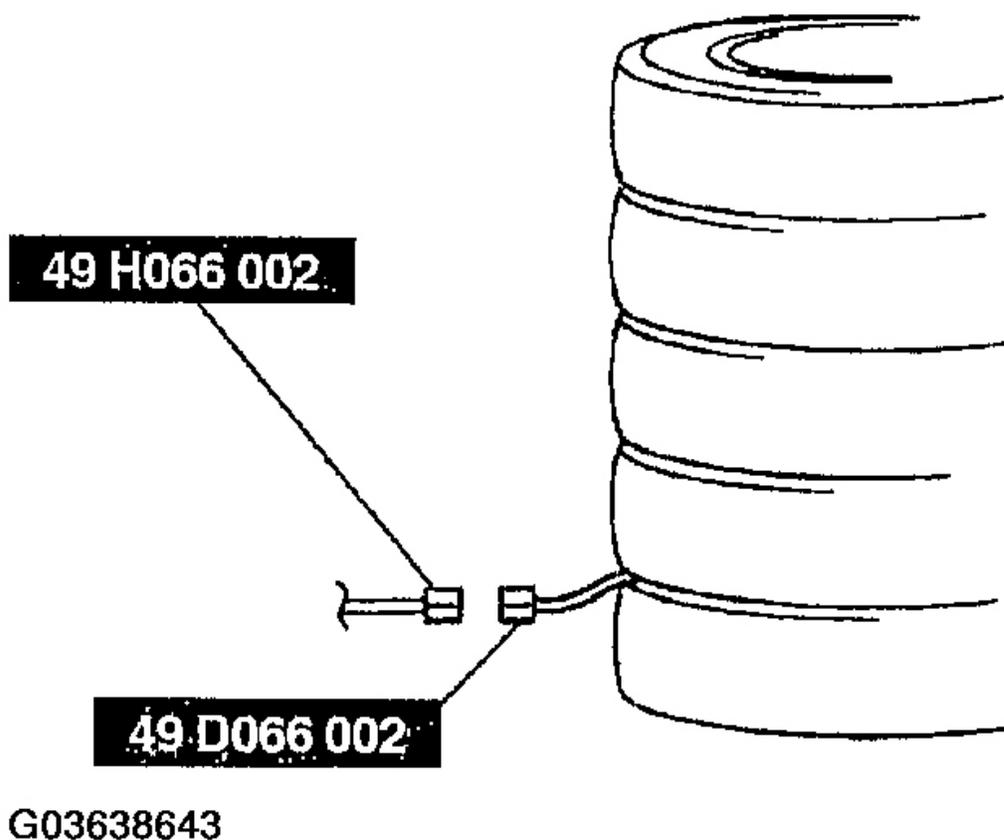
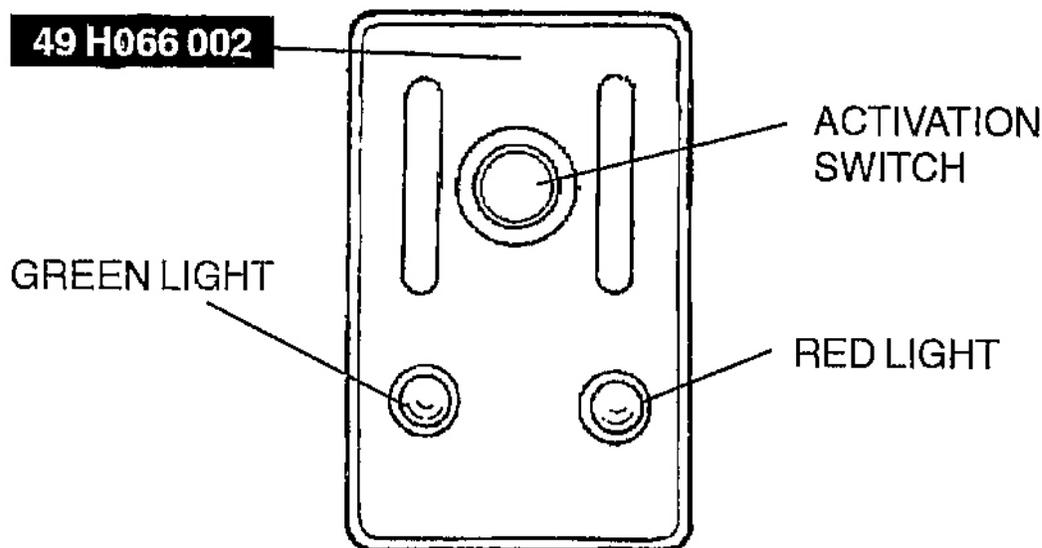


Fig. 38: Connecting Deployment Tool To Adapter Harness
Courtesy of MAZDA MOTORS CORP.

7. Connect the red clip of the **SST** (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
8. Verify that the red light on the **SST** (Deployment Tool) is illuminated.
9. Make sure all persons are standing **at least 6 m {20 ft}** away from the tires.
10. Press the activation switch on the **SST** (Deployment Tool) to deploy the driver-side air bag module.



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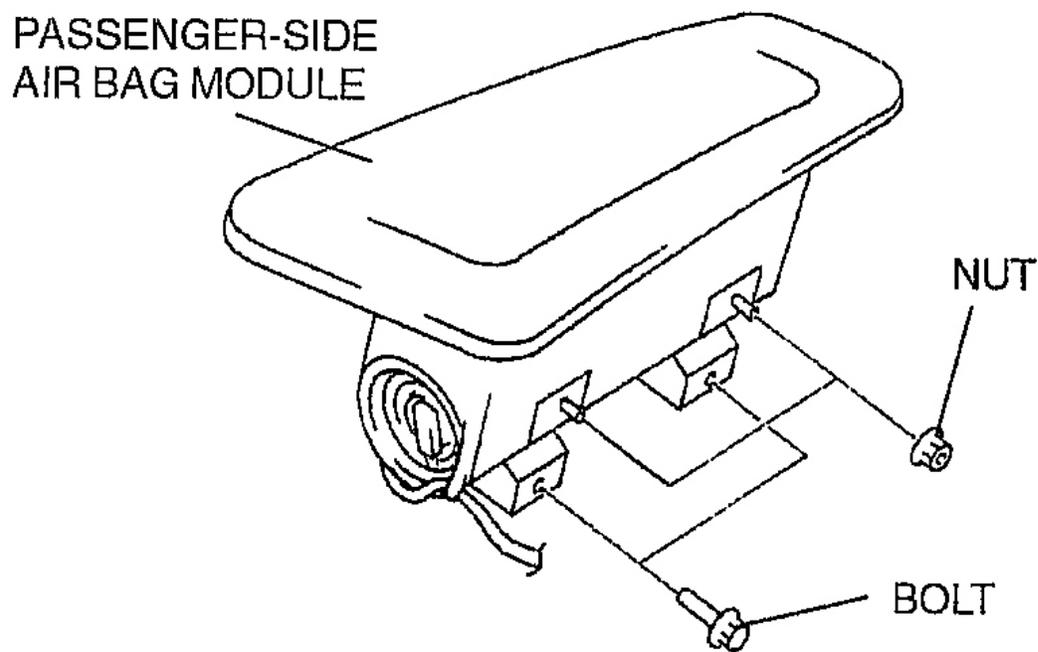
Fig. 39: Identifying Deployment Tool
Courtesy of MAZDA MOTORS CORP.

Passenger-side air bag module

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

WARNING:

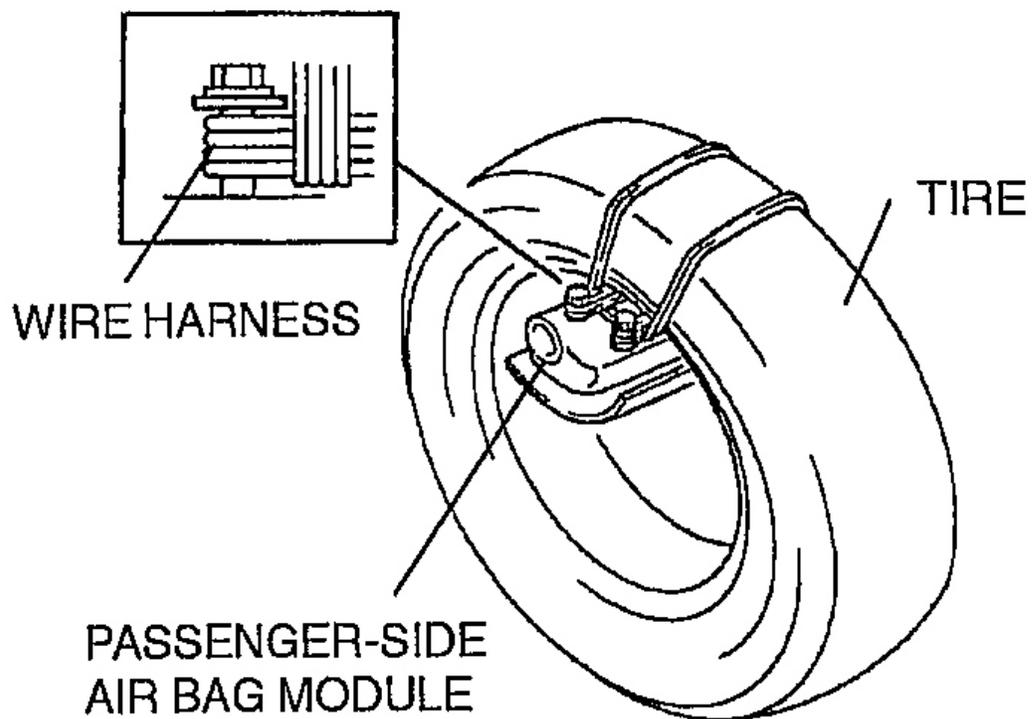
- If the air bag module is not properly installed to the tire, serious injury may occur when the module is deployed. When installing the air bag module to the tire, make sure the module is facing the center of the tire.



G03638645

Fig. 40: Installing Passenger-Side Air Bag Module
Courtesy of MAZDA MOTORS CORP.

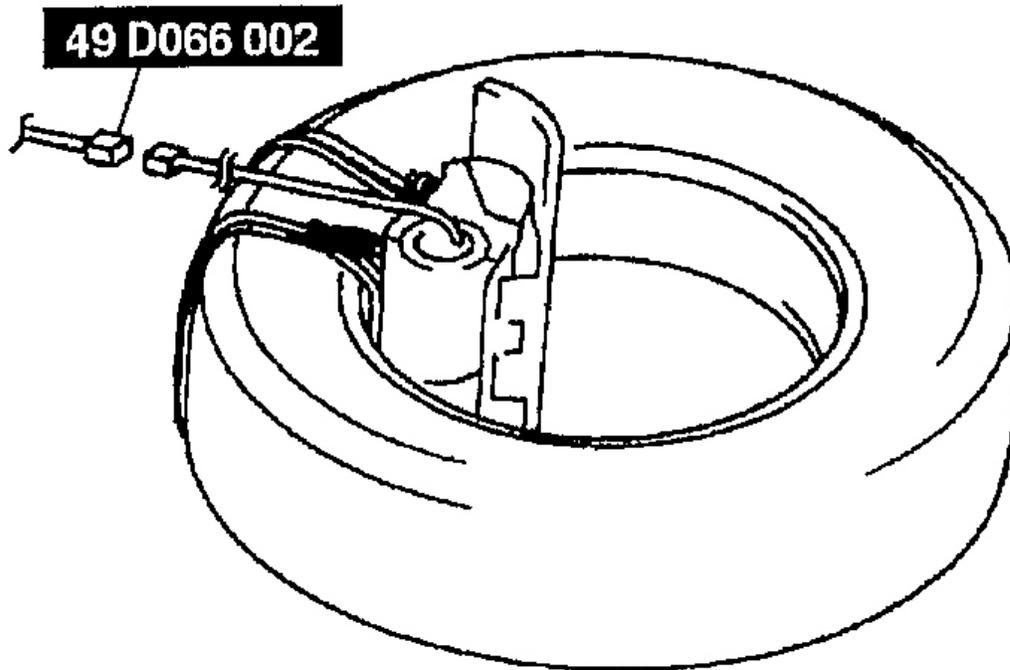
3. Tie the passenger-side air bag module to a tire with the module facing the center of the tire. Wrap the wire harness through the tire and around the bolts or nut **at least 4 times**.



G03638646

Fig. 41: Tying Passenger-Side Air Bag Module To Tire
Courtesy of MAZDA MOTORS CORP.

4. Connect the SST (Adapter Harness) to the passenger-side air bag module as shown in **Fig. 42**.



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Fig. 42: Connecting Adapter Harness To Passenger-Side Air Bag Module
Courtesy of MAZDA MOTORS CORP.

5. Stack the tire with the passenger-side air bag module on top of two tires. Stack a tire on top of the three tires. Stack another tire that has a wheel on top of the four tires.

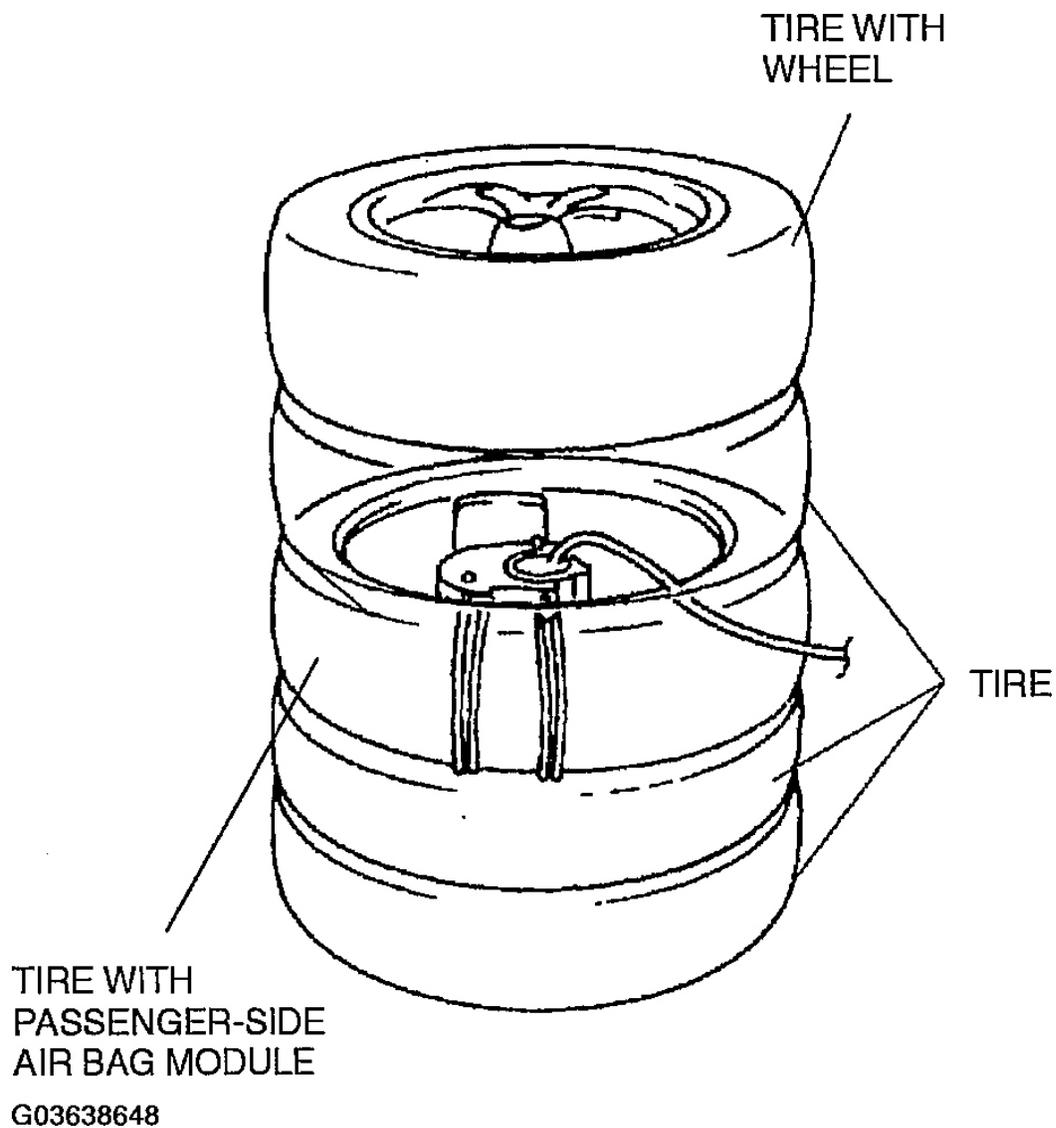
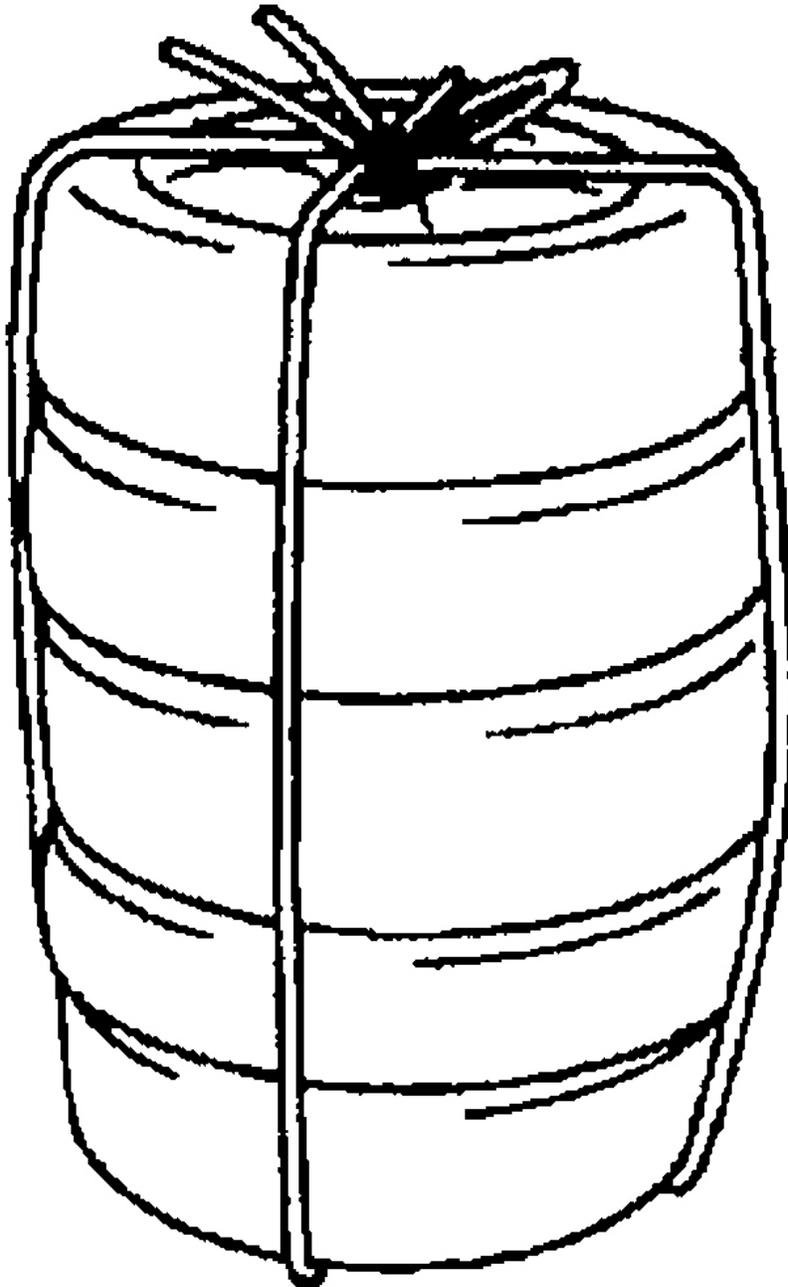


Fig. 43: Stacking Tires - For Passenger-Side Air Bag Module
Courtesy of MAZDA MOTORS CORP.

6. Tie all tires together with wire.



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Fig. 44: Tying Tires Together With Wire
Courtesy of MAZDA MOTORS CORP.

7. Connect the SST (Deployment Tool) to the SST (Adapter Harness).

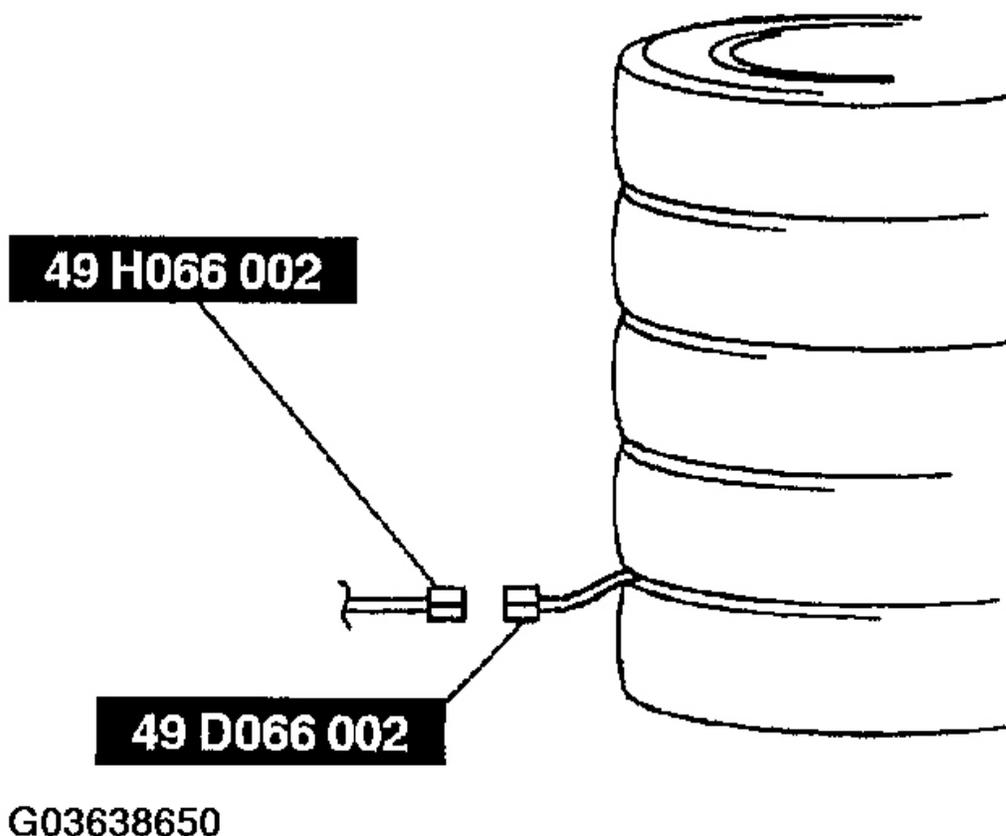
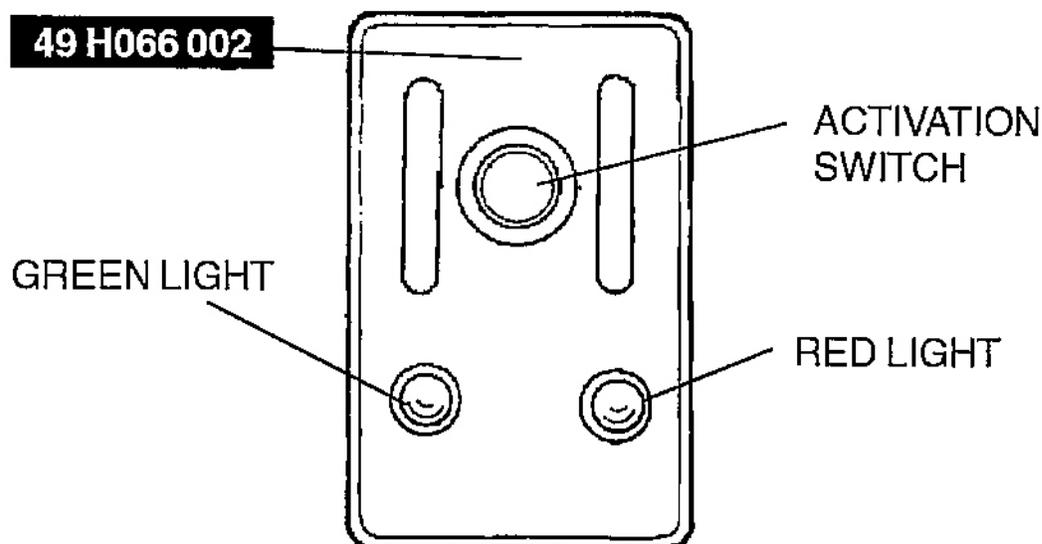


Fig. 45: Connecting Deployment Tool To Adapter Harness
Courtesy of MAZDA MOTORS CORP.

8. Connect the red clip of the **SST** (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
9. Verify that the red light on the **SST** (Deployment Tool) is illuminated.
10. Make sure all persons are standing **at least 6 m {20 ft}** away from the tires.
11. Press the activation switch on the **SST** (Deployment Tool) to deploy the passenger-side air bag module.



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Fig. 46: Identifying Deployment Tool
Courtesy of MAZDA MOTORS CORP.

Pre-tensioner seat belt

1. Remove the pre-tensioner seat belt and connect the SST (Adapter Harness) to it as shown in **Fig. 47**.

WARNING:

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

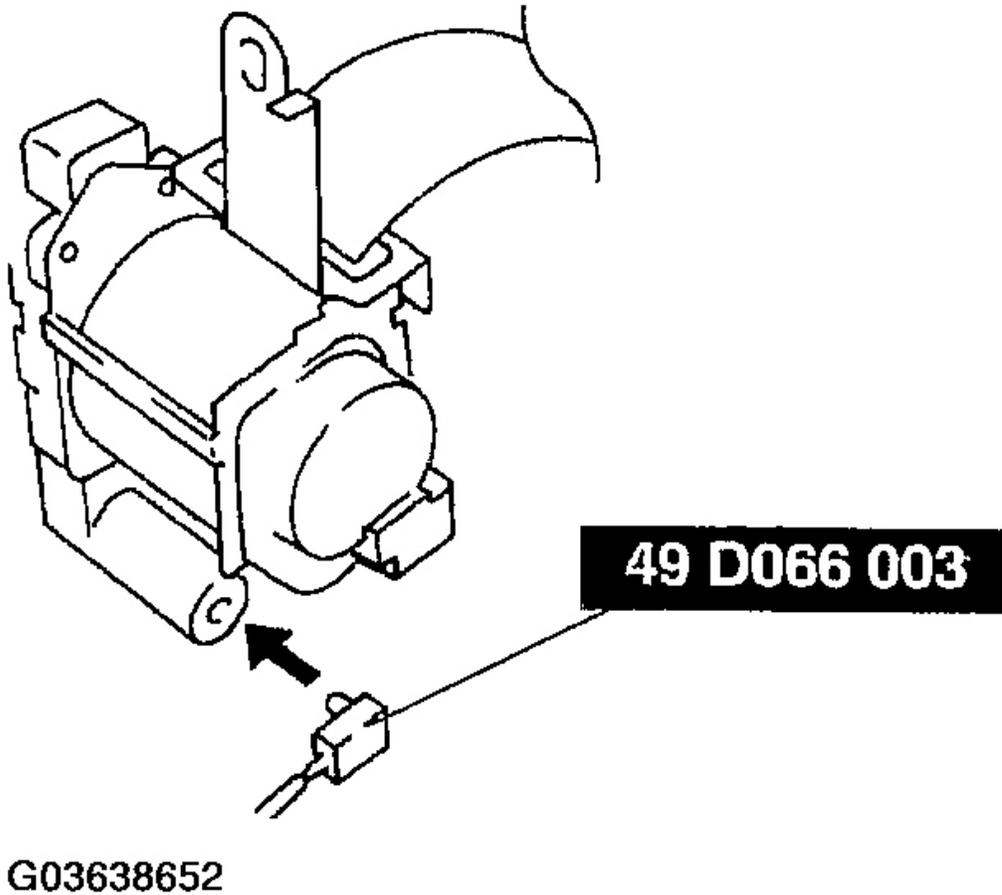
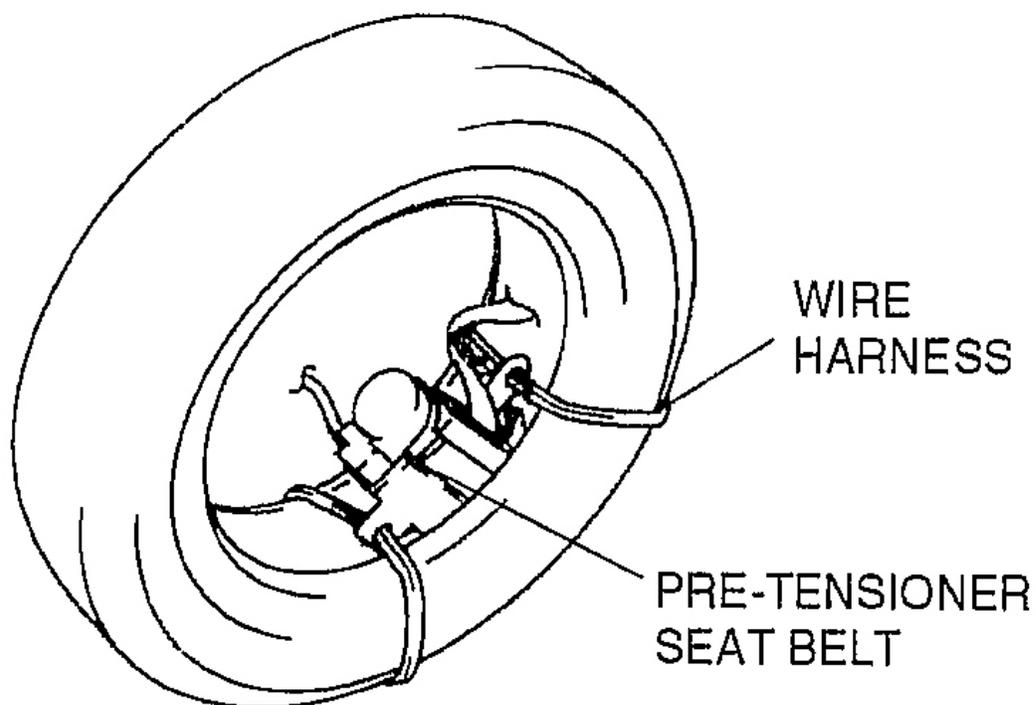


Fig. 47: Connecting Adapter Harness To Pre-Tensioner Seat Belt
Courtesy of MAZDA MOTORS CORP.

2. Tie the pre-tensioner seat belt to a tire with the module facing the center of the tire. Wrap the wire harness through the tire and around the bolts or nut **at least 4 times**.



G03638653

Fig. 48: Tying Pre-Tensioner Seat Belt To Tire
Courtesy of MAZDA MOTORS CORP.

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

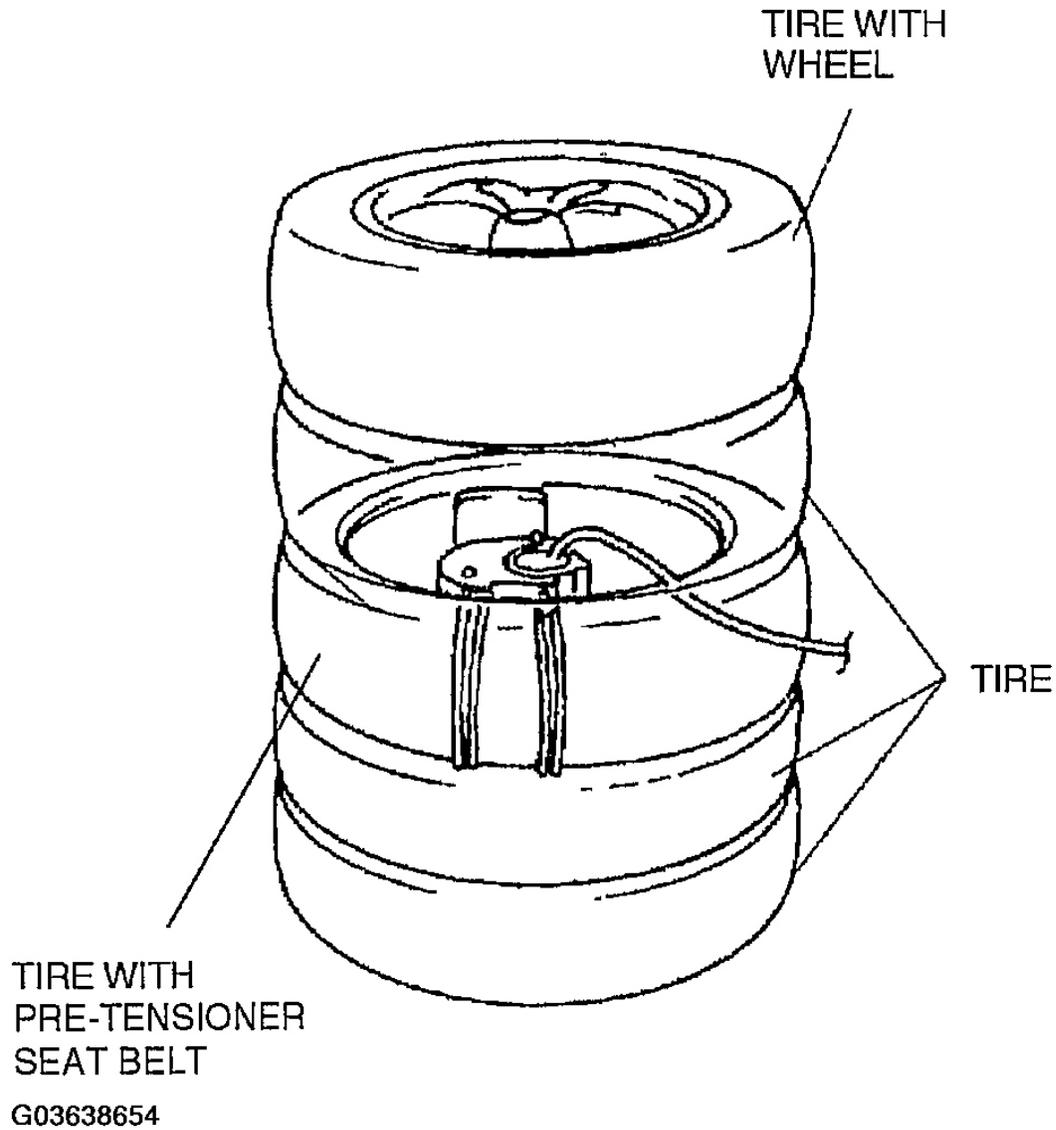
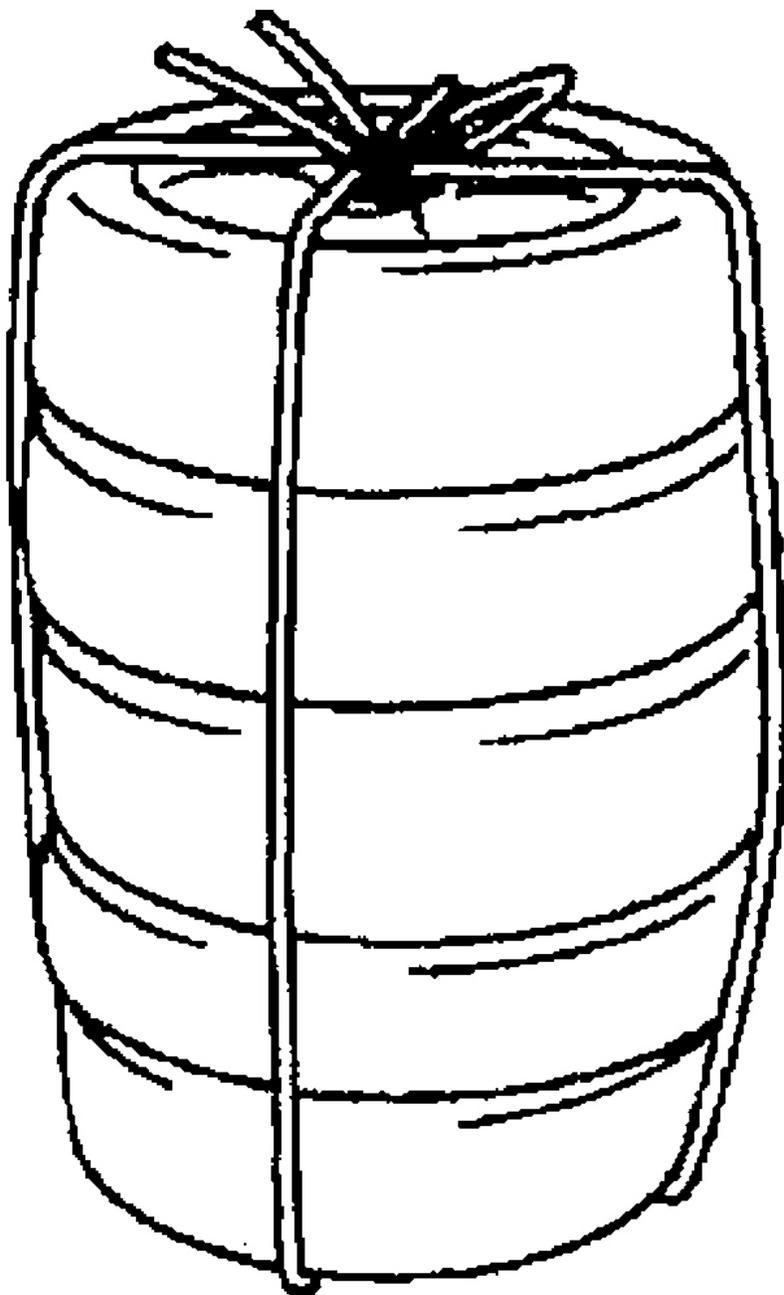


Fig. 49: Stacking Tires - For Pre-Tensioner Seat Belt
Courtesy of MAZDA MOTORS CORP.

4. Tie all tires together with wire.



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Fig. 50: Tying Tires Together With Wire
Courtesy of MAZDA MOTORS CORP.

5. Connect the SST (Deployment Tool) to the SST (Adapter Harness).

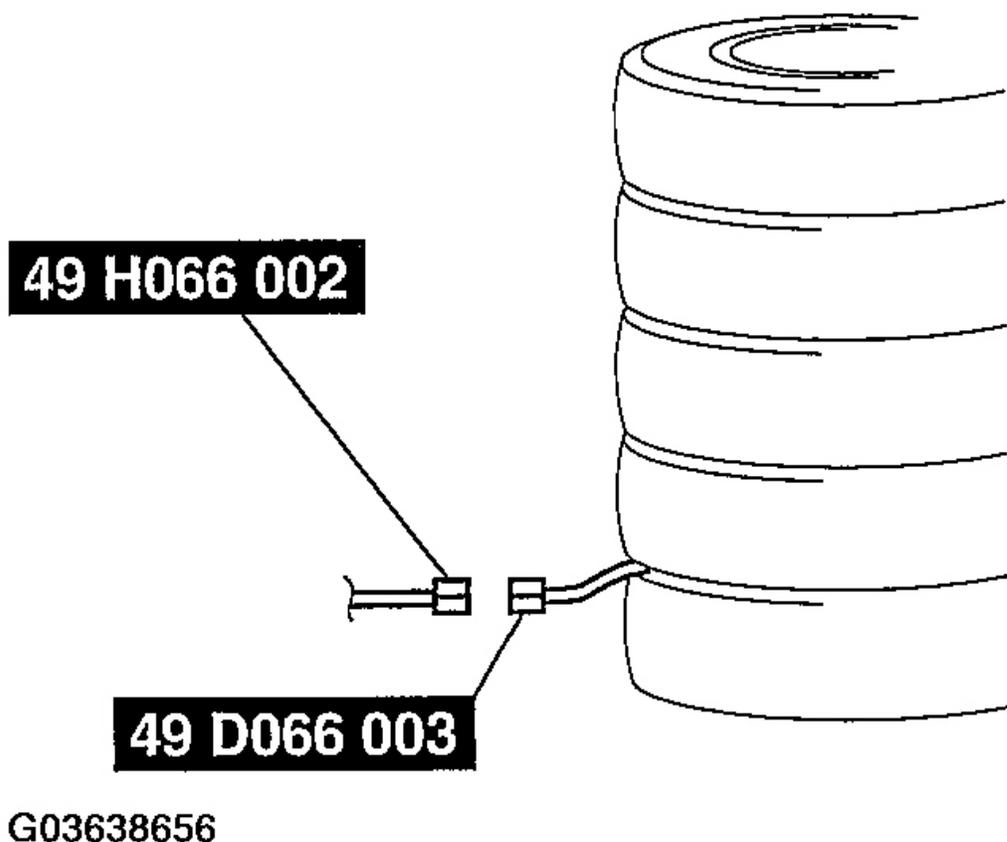


Fig. 51: Connecting Deployment Tool To Adapter Harness
Courtesy of MAZDA MOTORS CORP.

6. Connect the red clip of the SST (Deployment Tool) to the positive battery terminal and the black clip to the negative battery terminal.
7. Verify that the red light on the SST (Deployment Tool) is illuminated.
8. Make sure all persons are standing **at least 6 m {20 ft}** away from the tires.
9. Press the activation switch on the SST (Deployment Tool) to deploy the pre-tensioner seat belt.

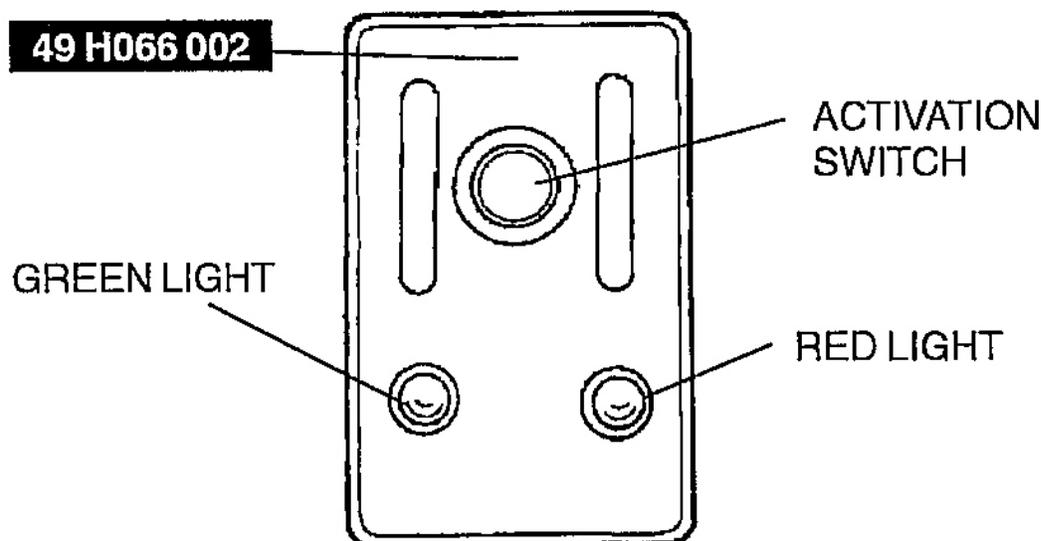


Fig. 52: Identifying Deployment Tool
Courtesy of MAZDA MOTORS CORP.

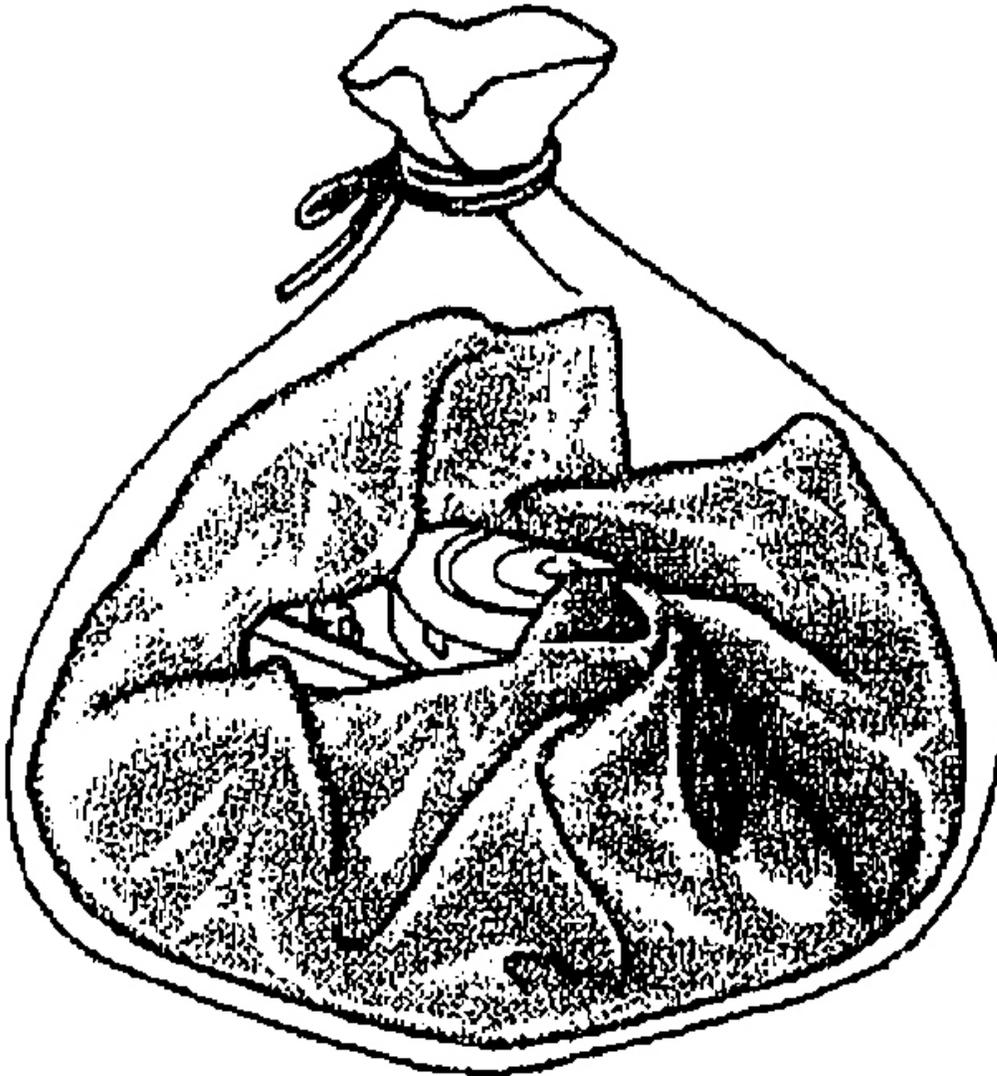
AIR BAG MODULE AND PRE-TENSIONER SEAT BELT DISPOSAL PROCEDURES

WARNING:

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

and safety glasses.

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



G03638658

Fig. 53: Putting Deployed Air Bag Module In Plastic Bag
Courtesy of MAZDA MOTORS CORP.

3. Wash your hands after removing your gloves.

INSPECTION OF SST (DEPLOYMENT TOOL)

1. Use the SST (Deployment Tool) to deploy a live air bag module before disposing of it.
2. Before connecting the SST (Deployment Tool) to the clock spring or passenger-side air bag module, inspect the operation of the SST (Deployment Tool).

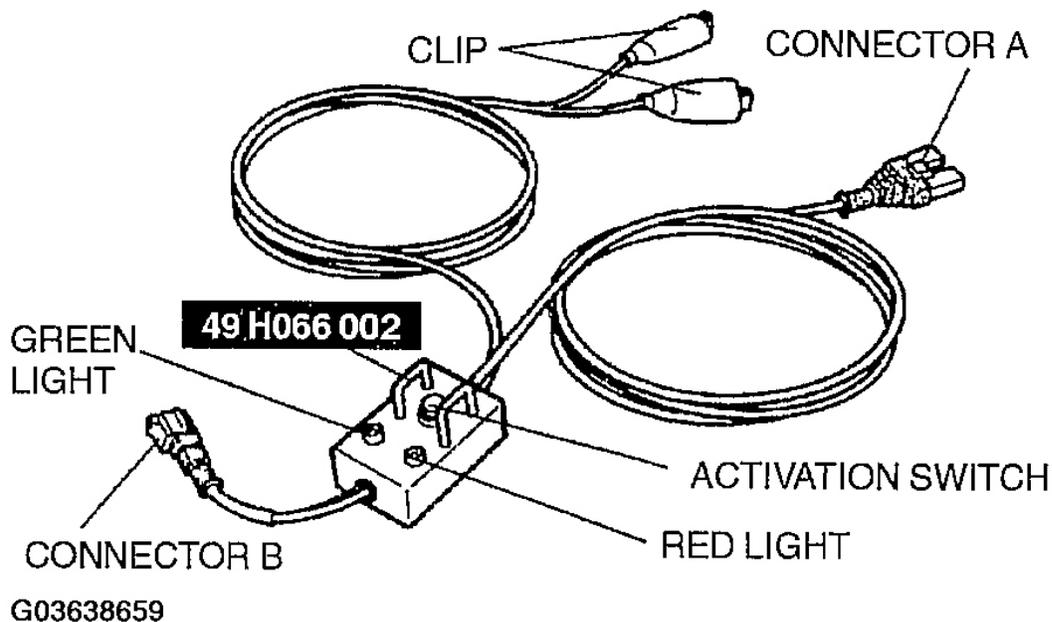


Fig. 54: Identifying Deployment Tool Components
 Courtesy of MAZDA MOTORS CORP.

INSPECTION PROCEDURE

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

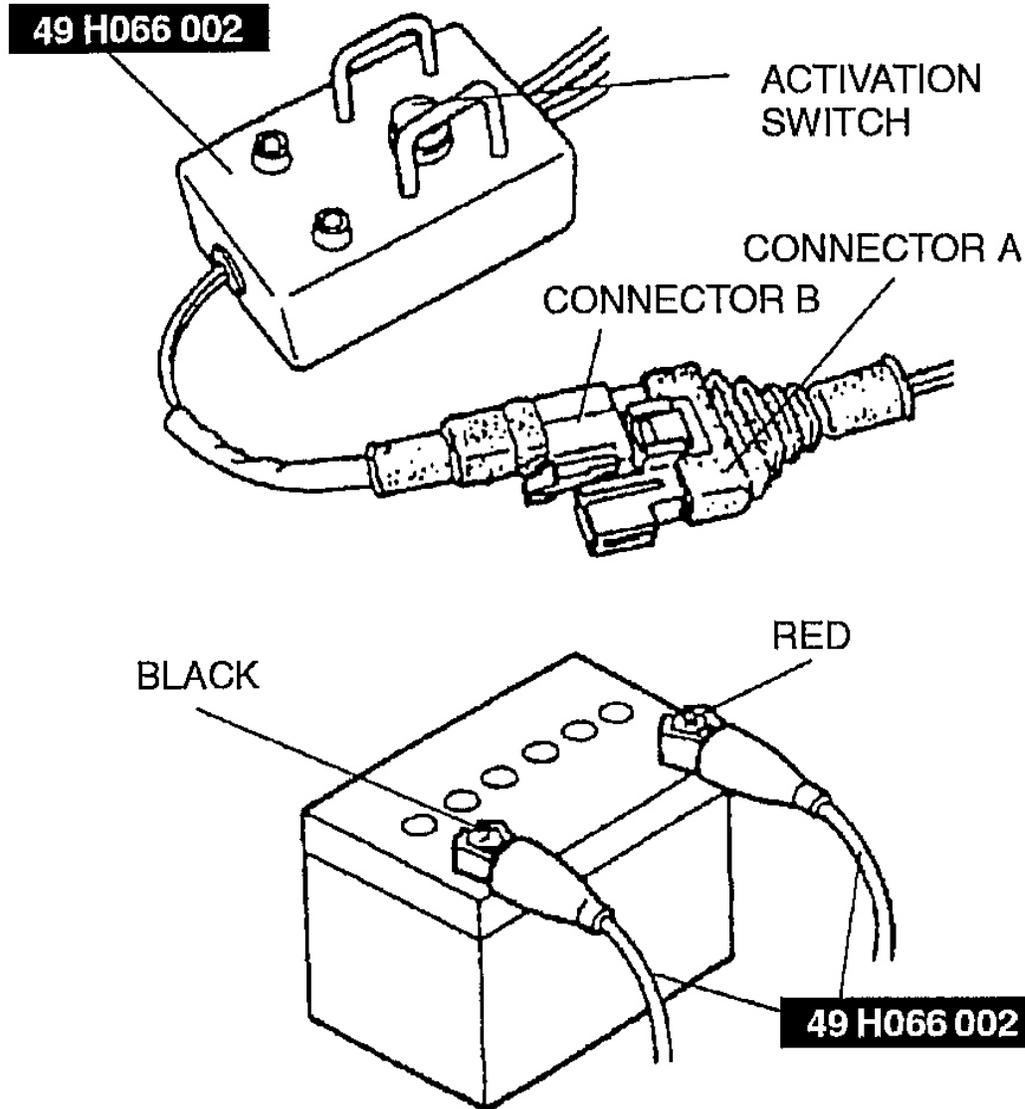
INSPECTION PROCEDURE

Step	Inspection procedure	Light condition	
		Green	Red
1	Connect red clip to positive battery terminal and black clip to negative battery terminal.	On	Off

2005 Mazda MX-5 Miata

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2	Connect connectors A and B of SST (Deployment Tool).	Off	On
3	Press activation switch.	On	Off



G03638660

Fig. 55: Inspecting Deployment Tool
Courtesy of MAZDA MOTORS CORP.