

## 2004 ACCESSORIES/SAFETY EQUIPMENT

### Acura - Air Bag Restraint Systems

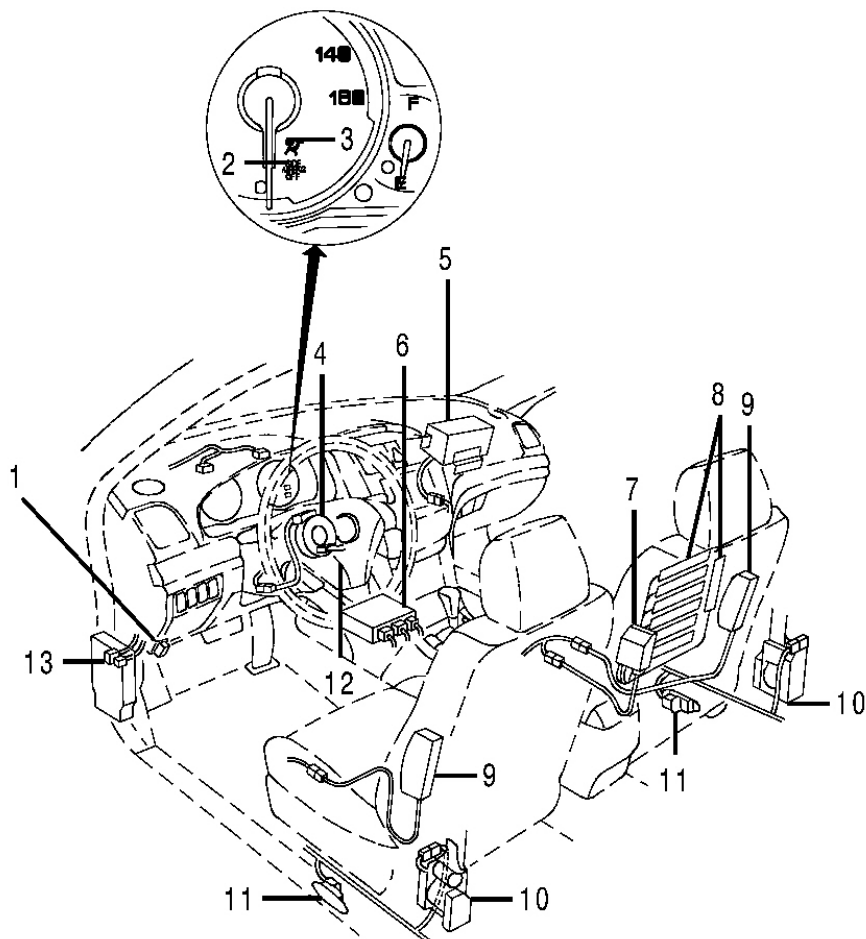
## DESCRIPTION & OPERATION

**WARNING:** Accidental air bag deployment is possible. Personal injury may result. Read and follow all **WARNINGS** and **AIR BAG SAFETY PRECAUTIONS** before working on air bag system or related components.

Supplemental Restraint System (SRS), also known as air bag system, is designed to protect driver and front passenger by activating when vehicle receives a sufficient front-end or side impact. System includes dual-stage driver-side air bag, dual-stage passenger-side air bag, driver and front passenger side air bags, side curtain air bags, rear, side and front impact sensors, cable reel, seat belt pretensioners, Occupant Position Detection System (OPDS), and SRS unit (with internal safing). See COMPONENT LOCATIONS.

## COMPONENT LOCATIONS

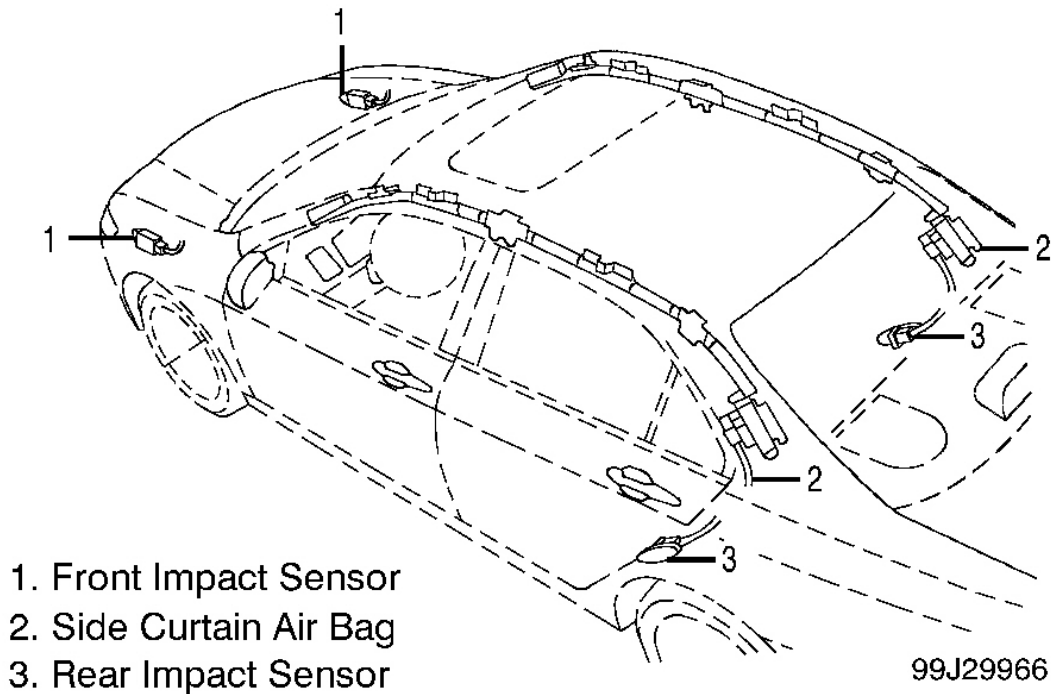
Refer to illustration for component locations. See Fig. 1 & Fig. 2.



- |                                  |                                |
|----------------------------------|--------------------------------|
| 1. Data Link Connector (DLC)     | 8. OPDS Sensors                |
| 2. Side Air Bag Cutoff Indicator | 9. Side Air Bag Module         |
| 3. AIR BAG Warning Light         | 10. Seat Belt Pretensioner     |
| 4. Cable Reel                    | 11. Side Impact Sensor         |
| 5. Passenger-Side Air Bag Module | 12. Driver-Side Air Bag Module |
| 6. SRS Unit                      | 13. Memory Erase Signal (MES)  |
| 7. OPDS Unit                     | Connector                      |

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**Fig. 1: Locating Restraint System Components (1 Of 2)**  
 Courtesy of AMERICAN HONDA MOTOR CO., INC.



**Fig. 2: Locating Restraint System Components (2 Of 2)**  
Courtesy of AMERICAN HONDA MOTOR CO., INC.

## SYSTEM OPERATION CHECK

Turn ignition switch on. AIR BAG warning light should illuminate for about 6 seconds, then go off. If AIR BAG warning light illuminates while driving, does not illuminate at all or flashes, an air bag system malfunction has been detected. See **DIAGNOSTICS**.

## AIR BAG SAFETY PRECAUTIONS

Observe these precautions when working with air bag system:

- Carefully inspect any SRS part before installing. DO NOT install any part that shows signs of being dropped or improperly handled, such as dents, cracks or deformation.
- Use only a digital multimeter to check system. Ensure multimeter output is 10 milliamp (0.01 amp) or less when switched to lowest value in ohmmeter range.
- DO NOT install used SRS parts from another vehicle. When making SRS repairs, use only NEW parts.
- Except when indicated, always disconnect negative battery cable, and wait at least 3 minutes before making SRS repairs.
- When ignition is on, or has been turned off for less than 3 minutes, DO NOT bump SRS unit. Air bags could accidentally deploy.

- Radio contains anti-theft protection circuit. Obtain anti-theft code before disconnecting battery.
- DO NOT disassemble air bags or SRS unit. There are no serviceable parts. Once deployed, an air bag cannot be repaired or reused.
- Store removed air bags with deployment side facing up. If stored face down, accidental deployment could propel unit with enough force to cause serious injury.
- Store removed air bags on secure flat surface away from high heat source and free of oil, grease, detergent or water.
- Store SRS unit in cool and dry place. DO NOT spill water or oil on SRS unit and keep away from dust.
- Disconnect air bag connectors before disconnecting SRS harness connectors.

## DISABLING & ACTIVATING AIR BAG SYSTEM

**WARNING: Accidental air bag deployment is possible. Personal injury may result. Read and follow all WARNINGS and AIR BAG SAFETY PRECAUTIONS .**

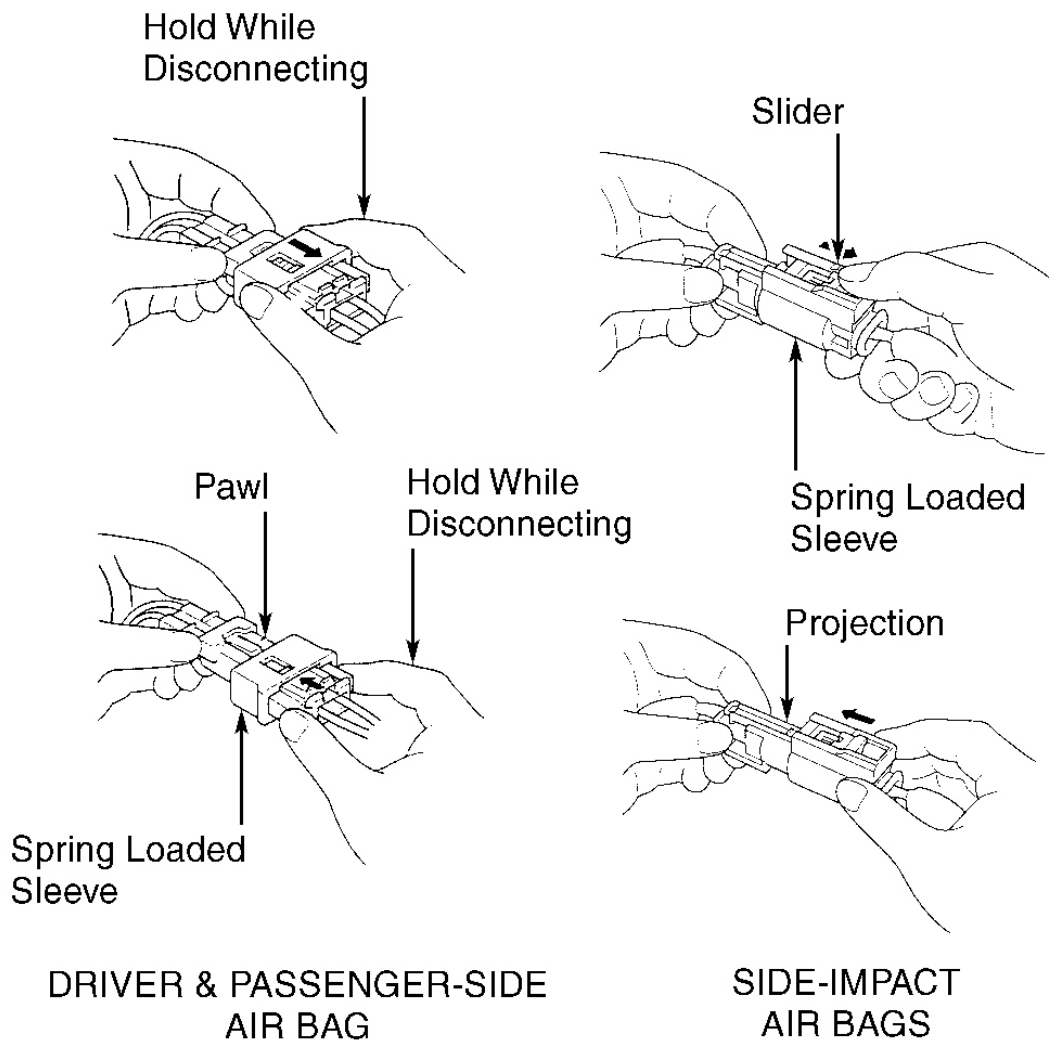
**NOTE: When battery is disconnected, certain memory circuits will lose data. When battery is reconnected, it may be necessary to perform appropriate computer relearn procedure. See COMPUTER RELEARN .**

### SPRING-LOADED LOCK CONNECTORS

To disconnect, pull spring-loaded sleeve toward stop while holding opposite half of connector. Then pull connector halves apart. Be sure to pull on sleeve and not on connector itself. See **Fig. 3** .

To connect, hold pawl-side connector half, and press on back of sleeve-side connector half in direction shown. As connector halves are pressed together, sleeve is pushed back by pawl. DO NOT touch sleeve. When connector halves are completely connected, pawl is released, and spring-loaded sleeve locks connector.

When backprobing spring-loaded lock connectors, remove retainer before inserting test probes from wire side. Carefully pry out retainer with flat-tip screwdriver. Retainer may be discarded after removal.



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**Fig. 3: Identifying Spring-loaded Lock Connectors**  
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

**DISABLING SYSTEM**

Obtain anti-theft codes for radio and navigation system, if equipped. Record frequencies for radio's preset buttons. Disconnect negative battery cable. Disconnect auxiliary battery or power source, if equipped. Wait 3 minutes before working on air bag system or related components.

**ACTIVATING SYSTEM**

Reconnect negative battery cable. Enter anti-theft codes for radio and navigation system. Enter radio station presets. Perform idle and window control unit relearn procedures. See **COMPUTER RELEARN** . Perform

## **SYSTEM OPERATION CHECK .**

### **COMPUTER RELEARN**

#### **Idle Relearn**

Ensure sure all electrical accessories (A/C, audio, rear defogger, lights, etc.) are off. Using HDS tester or HDS, perform PCM RESET in the CLEAR MENU. Turn ignition switch to ON position and wait 2 seconds. Start engine and hold at 3000 RPM (in Park or Neutral with no load) until radiator fan comes on, or until engine temperature reaches 194°F (90°C ). Let engine idle for about 5 minutes, with throttle fully closed. If radiator fan comes on, do not include its running time in the 5 minutes.

#### **Window Control Unit Relearn**

Turn ignition off. Turn ignition on. Push driver's window switch down to second detent to fully lower window. When window reaches bottom position, continue to depress switch for 2 seconds, then release switch. Pull driver's window switch up to second detent to fully raise window. When window reaches top position, continue to pull switch for 2 seconds, then release switch. If window does not operate in AUTO position, repeat procedure.

## **DISPOSAL PROCEDURES**

Before scrapping air bags or seat belt pretensioners, including those installed in vehicle to be scrapped, they must be deployed. Treat undeployed air bags and seat belt pretensioners with extreme care. Wear safety glasses and gloves when handling deployed them. Wash hands and rinse well with water after handling deployed air bag assemblies and seat belt pretensioners.

If vehicle is still within warranty period, contact manufacturer for disposal instructions before deploying air bags.

### **AIR BAG DEPLOYMENT**

**WARNING: Air bag assemblies become very hot when deployed. Personal injury may result. Wait at least 30 minutes before handling deployed air bag assemblies.**

**Flying debris is possible. Personal injury may result. Ensure air bag assemblies are securely mounted to vehicle.**

**NOTE: If vehicle is to be scrapped, deploy air bags and pretensioners on vehicle.**

#### **On-vehicle**

1. Before proceeding, see **AIR BAG SAFETY PRECAUTIONS** . Disconnect negative battery cable and wait at least 3 minutes. Ensure each air bag and pretensioner is securely mounted. Ensure proper operation of Deployment Tool (07HAZ-SG00500) by connecting a 12-volt battery per instructions supplied with tool.

2. To deploy driver-side air bag, remove access panel from bottom of steering wheel and disconnect driver-side air bag connector from cable reel connector. See **Fig. 4** . To deploy passenger-side air bag, remove glove box and disconnect passenger-side air bag connector from dashboard wire harness. See **Fig. 5** .
3. To deploy side air bag, disconnect side air bag connector from SRS floor harness. See **Fig. 6** . To deploy side curtain air bag, remove headliner and disconnect side curtain air bag module connector from roof wire harness. See **Fig. 7** .
4. To deploy seat belt pretensioner, remove B-pillar trim panel and disconnect seat belt pretensioner connector. See **Fig. 8** . Pull seat belt webbing out all the way and cut it off.

**NOTE:**        **Driver-side and passenger-side air bags have 4 wires each, 2 Yellow and 2 Red. Twist each pair of unlike colored wires together then connect alligator clip to each pair.**

5. To deploy air bags and seat belt pretensioners, cut off air bag connector and strip back 1" (25 mm) of insulation from wire ends. Connect Yellow alligator clips of deployment tool to uninsulated wire ends. Place deployment tool at least 30 feet (10 m) feet away from air bag.
6. Connect 12-volt battery to deployment tool. If Red light on deployment tool comes on, go to next step. If Green light on deployment tool comes on, ignitor circuit is faulty. See **DAMAGED AIR BAG SPECIAL PROCEDURE** .
7. Stand at least 30 feet (10 m) away from air bag. Push deployment switch, being prepared for rapid inflation of air bag and loud noise. If air bag and seat belt pretensioner deploys, wait 30 minutes to allow air bag to cool before removing and disposing of complete air bag module. Place in a sturdy plastic bag and seal securely.
8. If air bag or seat belt pretensioner does not deploy, ignitor circuit is faulty. See **DAMAGED AIR BAG SPECIAL PROCEDURE** .