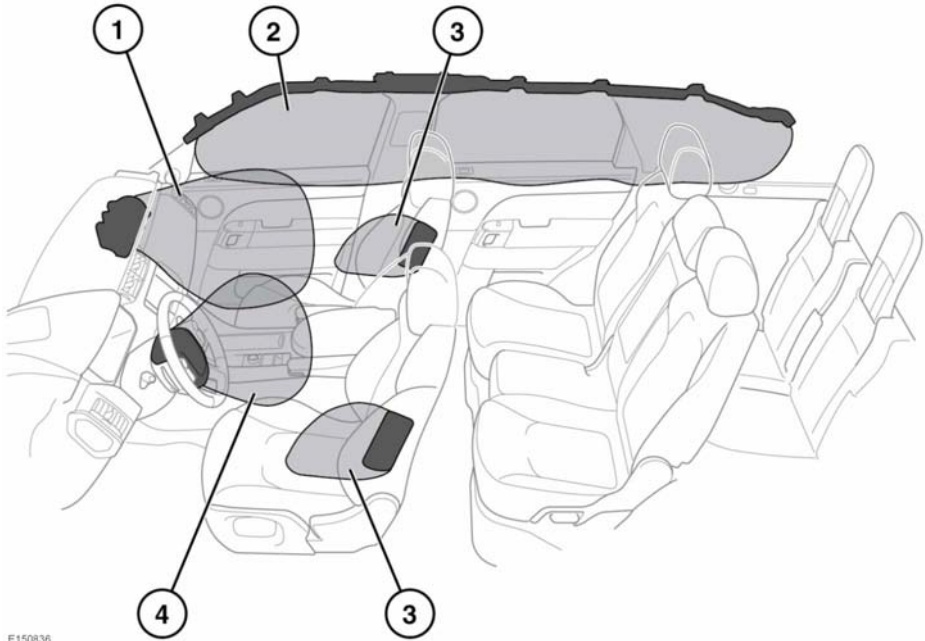


## AIR BAGS



E150836

1. Passenger front air bag.
2. Curtain air bag.
3. Side air bags.
4. Driver's front air bag.

**Note:** The general location of air bags fitted to the vehicle are marked by the word AIR BAG.

### **⚠ DANGER**

High speed impacts may cause serious injury or death irrespective of safety features fitted to the vehicle. Always drive with caution and consideration for the vehicle's characteristics, road and weather conditions, and do not exceed any speed limits in force.

### **⚠ DANGER**

Seat belts should be worn at all times, by the driver and passengers in all seating positions. The air bag supplementary restraint system (SRS) cannot provide protection in some types of impact. Under these circumstances, the only protection will be provided by a correctly worn seat belt.

## FRONT AIR BAGS

The front passenger and driver air bags have 2 levels of deployment, depending on the severity of the frontal impact. In a severe impact, the air bags inflate fully to offer maximum protection. In a lesser impact, full deployment is not required, so the air bags are inflated to a reduced pressure.

## SIDE AND CURTAIN AIR BAGS

The seat mounted side air bags are designed to protect the thorax region of the torso and will deploy only in the event of a side impact and then, only on the side of the impact.

Both sides will deploy in the event of a rollover.

The curtain air bags are deployed in side impact and rollover events, providing greater protection from serious head injuries. They deflate at a slower rate than the front or side air bags.

## AIR BAG OPERATION

### WARNING

National Highway Traffic Safety Administration (NHTSA) recommends a minimum distance of 10 in. (25 cm) between an occupant's chest and the driver's air bag module.

### WARNING

**Air bags provide additional protection in certain types of collision only - they do not replace the need to wear a seat belt. All occupants, in all seating positions, should always wear their seat belt, whether or not an air bag is present in that seating position.**

### WARNING

**For the air bags to operate correctly the roof lining and door post trims must be in good condition, correctly fitted, and free from obstruction. Any damage, wear, or incorrect fitment should be referred to your Land Rover Retailer/Authorized Repairer as soon as possible for examination and repair.**

### WARNING

**Air bags inflate at high speeds. To minimize the risk of injury, make sure all vehicle occupants wear correctly positioned seat belts, sit correctly in the seats, and position the seats as far back as practical.**

### WARNING

**Air bag inflation takes place instantaneously, and cannot protect against the effects of secondary impacts. Under these circumstances the only protection will be provided by a correctly worn seat belt.**

### WARNING

**Phone systems should only be installed by qualified persons familiar with the operation of, and requirements for, vehicles fitted with SRS. If you are in any doubt, seek advice from your Land Rover Retailer/ Authorized Repairer.**

Air bag deployment is dependent on the rate at which the passenger compartment changes velocity during a collision. Circumstances affecting different collisions (vehicle speed, angle of impact, type and size of object hit, etc.), vary considerably and will affect the rate of deceleration accordingly.

The air bags and SRS are not designed to operate as a result of:

- Rear impacts.
- Minor front impacts.
- Minor side impacts.
- Heavy braking.
- Driving over bumps and pot holes.

Therefore, it follows that considerable superficial damage to the vehicle can occur, without causing the air bags to deploy.

## DANGER

**High speed impacts may cause serious injury or death irrespective of safety features fitted to a vehicle.**

## WARNING

The air bags and SRS cannot provide protection in some types of impact. Under these circumstances the only protection will be provided by a correctly worn seat belt.

## AIR BAG OBSTRUCTION

### WARNING

**Do not obstruct the operation of the air bags by placing any part of your person or any objects in contact with, or close to, an air bag module. If the air bag inflates, objects or any part of your person could interfere with the inflation of the air bag or be propelled inside the vehicle, causing injury to the occupants.**

**Do not allow passengers to obstruct the operation of the air bags by placing feet, knees or any other part of the body, or any other objects in contact with, or in close proximity to, an air bag module.**

**Do not place objects between the air bag module and the seat occupant.**

### WARNING

**Do not use non-approved seat covers or accessory seat covers that have not been designed for use with air bags. If in doubt, consult your Land Rover Retailer/Authorized Repairer.**

### WARNING

**Make sure that a gap is maintained between the side of the vehicle, and the head and torso. This will enable unobstructed inflation of the curtain, and seat mounted side air bags.**

### WARNING

**Do not attach or position items on, or close to the roof lining, front seat backrests, or to an air bag cover, which could interfere with the inflation of the air bag or be propelled inside the vehicle, causing injury to the occupants.**

***Note:** Unauthorized modification of the vehicle or parts may invalidate the vehicle's warranty.*

Air bags cannot deploy correctly if they are obstructed. Examples of obstructions are:-

- Any part of an occupants body in contact with, or close to, an air bag cover.
- Objects placed on, or close to, an air bag cover.
- Clothing, sun screens, or other material hanging from grab handles.
- Clothing, cushions, or other material, covering seat mounted air bags.
- Seat covers which are not approved by Land Rover, or specifically designed for use with seat mounted air bags.

This list is not exhaustive, and it remains the responsibility of the driver and passengers to make sure the air bags are not obstructed in any way.

## AIR BAG DEPLOYMENT EFFECTS

### **⚠️WARNING**

When an air bag inflates, a fine powder is released. This is normal and not an indication of a malfunction. The powder may cause irritation to the skin and should be thoroughly flushed from eyes and any cuts or abrasions. This powder can cause breathing difficulties for asthma sufferers or other people with respiratory problems. If this occurs, get out of the vehicle as soon as it is safe to do so or get fresh air by opening a window. If breathing problems persist, seek medical attention.

### **⚠️WARNING**

Air bag deployment is accompanied by a very loud noise which may cause discomfort and temporary loss of hearing.

### **⚠️WARNING**

The Air bags will activate only once and then must be replaced. Failure to replace them will reduce the effectiveness of the SRS in reducing the risk of serious injury or death in the event of an accident. Replacement air bags should only be installed by your Retailer/Authorized Repairer.

### **⚠️WARNING**

After inflation, some air bag components will be very hot. Do not touch the air bag components until they have cooled sufficiently.

After inflation, the front and seat mounted side air bags deflate immediately. This provides a gradual cushioning effect for the occupants and also makes sure the driver's forward vision is not obscured.

## AIR BAG WARNING LAMP

### **⚠️WARNING**

Even with advanced air bags, children can be seriously injured or killed. Never place a child in any type of child restraint or booster seat in the front passenger seat. Children under the age of 13 should always ride in the rear.

If any of the following warning lamp conditions occur, the vehicle should be checked by your Land Rover Retailer/Authorized Repairer immediately.

- The warning lamp fails to illuminate when the ignition is turned on.
- The warning lamp fails to extinguish after 8 seconds of the ignition being turned on.
- The warning lamp illuminates at any time, other than the bulb check, as previously described.

When the ignition is switched on, a diagnostic control unit monitors the readiness of the system's electrical circuits. The elements of the Supplementary Restraint System (SRS) being monitored include:

- SRS warning indicator.
- Rotary coupler.
- Air bag modules.
- Seat belt pre-tensioners (front and 2nd row rear seat belts).
- Front seat belt buckle switches.
- Front seat track position sensor.
- Front passenger belt tension sensor.
- Air bag diagnostic control unit.
- Crash and rollover sensors.
- Air bag wiring harnesses.
- Seat occupancy sensor.

## OCCUPANT SENSING

The front passenger seat is fitted with an occupancy sensor system that determines if the seat is unoccupied, occupied by a person of low weight, a child seat or object, or is occupied by a heavier person or object.

The system consists of:

- A weight sensing pressure pad installed under the front passenger seat cushion. The sensor measures downward pressure/weight on the seat cushion.
- A seat belt tension sensor integrated into the anchor point of the front passenger seat belt.
- A control unit installed under the front passenger seat.
- An air bag status indicator lamp, mounted in the roof console.

### **⚠ WARNING**

**When checking the operational status of the front passenger air bag, make sure the ignition is switched on.**



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The system will adjust the passenger air bag status and operate the status indicator as follows:

Seat occupancy status	Passenger air bag status	Status indicator active
Completely empty	Deactivated	No
Child seat or low weight occupant or object	Deactivated	Yes
Heavy occupant or object	Activated	No

It is possible to receive an intermittent indicator with an empty seat condition. This is part of the system's adaptive behavior, and does not affect the status of the passenger air bag. However, if the indicator becomes permanently illuminated when the seat is definitely empty, then contact your Land Rover Retailer/Authorized Repairer immediately.

**Note:** *In some cases a small child placed in a child seat will not activate the passenger air bag status indicator. If this occurs, the passenger air bag status will be as described for an empty seat, i.e. passenger air bag 'Deactivated' but the status indicator is not illuminated.*

### **⚠ DANGER**

**Crash statistics show that children are safest when properly restrained in a child restraint system appropriate for their age and weight and secured in a rear seating position.**

### **⚠ DANGER**

**Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!**

**Note:** The indicator will only illuminate when the ignition is on or the engine is running.

## AIR BAG SERVICE INFORMATION

### WARNING

Phone systems should only be installed by qualified persons familiar with the operation of, and requirements for, vehicles fitted with SRS. If you are in any doubt, seek advice from your Land Rover Retailer/ Authorized Repairer.

### WARNING

Do not attempt to service, repair, replace, modify, or tamper with, any part of the SRS. This includes wiring or components in the vicinity of SRS components. Doing so may cause the system to trigger, or render the system inoperative, either of which may result in serious injury or death.

### WARNING

Do not use any electrical test equipment or devices in the vicinity of SRS components or wiring. Doing so may cause the system to trigger or render the system inoperative, either of which may result in serious injury or death.

### WARNING

For your safety, all of the following operations should only be carried out by a Land Rover Retailer/ Authorized Repairer, or suitably qualified person:-

- Removal or repair of any wiring or component in the vicinity of any SRS components.

- Installation of electrical, or electronic, equipment and accessories.

- Modification to the front or sides of the vehicle exterior.

- Attachment of accessories to the front or sides of the vehicle.

Always contact your Land Rover Retailer/ Authorized Repairer if:

- An air bag inflates.
- The front or sides of the vehicle are damaged.
- Any part of the Air bag Supplementary Restraint System (SRS) shows signs of cracking or damage, including trim covering air bags.

## DISABILITY MODIFICATIONS

### WARNING

Occupants with disabilities that may require the vehicle to be modified must contact a Land Rover Retailer/Authorized Repairer before any modifications are made. Modifications may adversely affect the vehicle which can lead to loss of control, resulting in a crash.

(USA only) If you are considering modifying your vehicle in any way to accommodate a disability, for example by altering or adapting the driver's or passenger's seat(s) or air bag system, please contact:

Jaguar Land Rover North America LLC

Customer Relations Center

555 MacArthur Blvd

Mahwah

New Jersey 07430-2327

1-800-637-6837, option #9.