

Volvo Cars of North America, LLC.

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The following information is a compilation of SRS component descriptions and locations for Volvo vehicles from the MY 1987 240 to the present MY 2005 V50.

Being focused on safety, Volvo has assembled these Guidelines for Emergency Personnel Attending Traffic Accidents.

Volvo strongly recommends that all rescue personnel, in the interest of their own and vehicle occupant safety, become familiar with the type and location of particular SRS components for each Volvo model described herein, and heed all recommendations for safeguarding against accidental or incidental deployment both during and after rescue.

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Volvo Cars of North America, LLC.

Bulletin for Emergency Personnel attending traffic accidents.

QUALITY INFORMATION

Re: Information for emergency personnel attending traffic accidents.

NO.

GROUP

88

July-04

240/700/S40(-04)/V40/ 940/960/S90/V90/850/ S70/ V70 (-00)/C70/V70 XC (-00)/ V70 (00-)/V70 XC (01-)/ XC70/S60/S80/XC90/ S40(04-)/V50/V40/ 850,S70,V70/S60,V70, S80

M/Y 1987-

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Remarks: This quality information includes the \$40(04-)/V50/850,\$70,V70/V40 \$60,V70,\$80.

Distribution: Involved markets.

Involved markets: All markets.

Background: This information is intended for emergency personnel about the safety systems in Volvo's in

the event of an extrication due to a traffic accident.

Information regarding the Volvo safety restraint system

Since 1987, Volvo cars have been equipped with advanced occupant restraint systems designed to supplement the protection provided by seat belts. These are called Supplemental Restraint System module (SRS).

Different models and model year Volvo's are equipped with various types of active components of the SRS including seat belt pre-tensioners, frontal driver and passenger airbags, SIPS bag (front occupant side airbags), inflatable curtains (IC), and ROPS (Roll Over Protection Systems).

Not all of these components are present in all models.

Additionally, these pre-tensioners, airbags, and curtains have been designed with pyrotechnic or electrostatic deployment systems - each with unique handling requirements - in various locations throughout the car.

Recognizing this complexity and being focused on safety, Volvo has assembled these Guidelines for Emergency Personnel Attending Traffic Accidents.

Volvo strongly recommends that all rescue personnel, in the interest of their own and vehicle occupant safety, become familiar with the type and location of particular SRS components for each Volvo model described herein, and heed all recommendations for safeguarding against accidental or incidental deployment both during and after rescue.

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General information

Vehicles with SRS Systems:

The first thing emergency personnel should do is to disconnect the electrical power supply by disconnecting the battery. The back-up power function of the SRS can retain voltage for approximately 10 seconds after the power supply has been disconnected. Emergency personnel should avoid applying direct force on any of the SRS components.

The battery for S80/V70 (00-)/V70 (01-)/XC70/S60/XC90 are located in the cargo compartment (trunk).

Note! When the battery is disconnected, the following components cannot be operated if they are electronically controlled:

- Power seats
- Power sunroof
- Central locking
- Power window

After an SRS component has deployed, it is then possible to mechanically handle it without concern of further deployment. Precautions should be taken when working in the area of non-deployed components.

Powder is spread out into the vehicle when the airbag is activated. The powder is generated during airbag deployment. The powder may cause skin irritation.

This powder can be washed off with normal tap water. If the powder gets into the eyes, wash with plenty of water.

If an SRS equipped vehicle is on fire: SRS components are designed to deploy under conditions of excessive heat. The system is designed to deploy the SRS components when the temperature on the gas generator reaches 230° C (450° F).

It should be noted that it takes a serious fire to deploy the SRS components, which means that the SRS components will not deploy in all type of fires.

Note! The **SIPS bags** in the front seats have either **mechanical** or **electrical** systems. Electrical SIPS systems can be deactivated by disconnecting the battery. Mechanical SIPS bags **CANNOT** be deactivated so care must be taken not to impact the sensor located in the base of both front seats. See model descriptions for mechanical or electrical system and component location.

- For vehicles with inflatable curtains, if the roof needs to be cut open, avoid cutting the gas tubes for the inflatable curtain system which are located in the C/D-pillar area. See model description for component location.
- **C70 Convertibles** are equipped with ROPS located behind the rear seat headrests. The ROPS is deployed by a mechanical spring and contains no pyrotechnics.
- The WHIPS is an anti-whiplash mechanical system which requires no special handling.

Explanation of abbreviations used in this document:

SRS Supplemental Restraint System SIPS Side Impact Protection System ROPS Roll Over Protection System

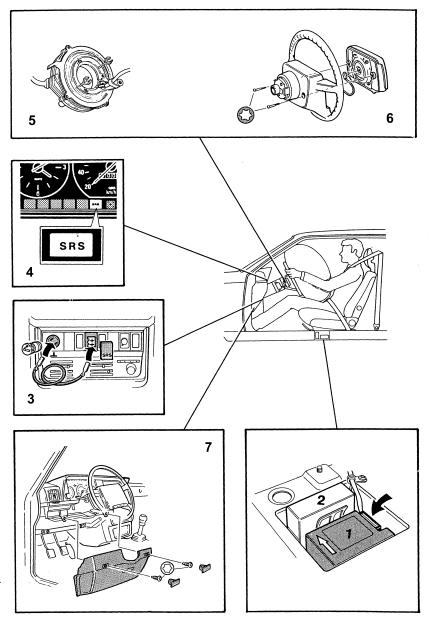
IC Inflatable Curtain (airbag curtain located above side windows).

WHIPS Whiplash Protection System (located in the base of the two front seats).

ECM Engine Control Module

OWS Occupant Weight Sensor (located in the passenger seat)

PLP Pyrotechnical Lap belt Pre-tensioner

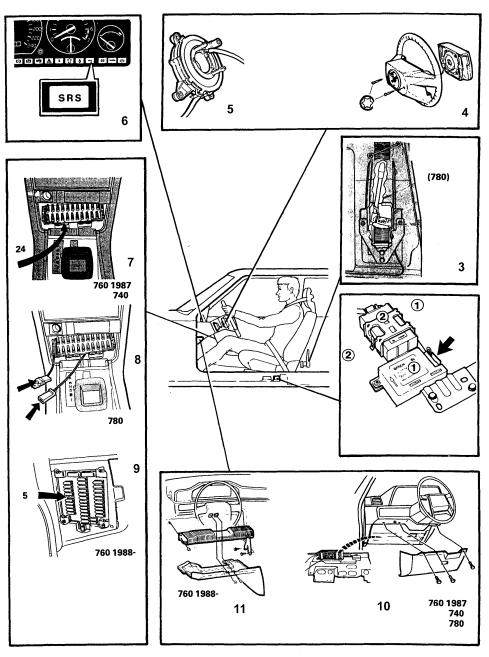


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SRS components, 240 1987-

- 1: Collision sensor
 2: Standby power unit
 3: Test output
 4: SRS indicator lamp
 5: Contact Reel
 6: Steering wheel module
 7: Knee bolster (USA/Canada)

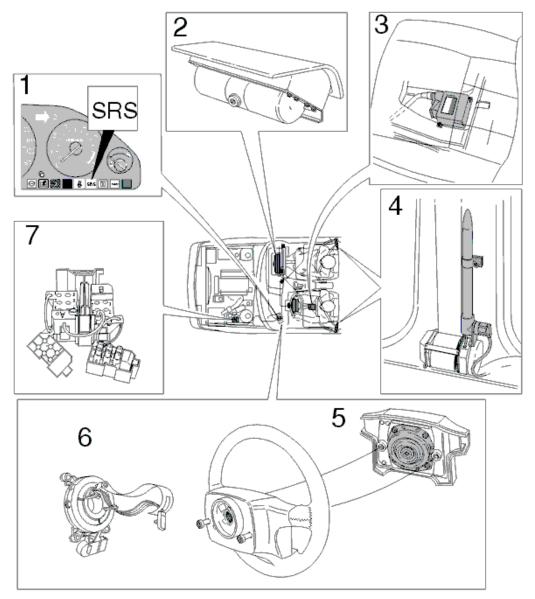
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8803082S

SRS components, 700 1987-

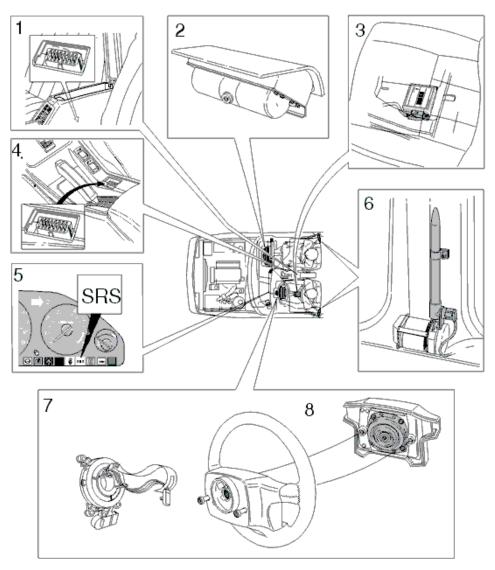
- Collision sensor
- Standby power unit
- 3: Seat belt tensioner (pyrotechnic) 780
- 4: Steering wheel module
- 5: Contact reel
- 6:
- SRS indicator lamp Test output 760-1987/All 740 7:
- Test output 780
- Test output 760-1988-9:
- 10: Knee bolster 760-1987/All 740/All 780
- 11: Knee bolster 760-1988-



SRS components, 940/960 1991-1996

- 1: SRS indicator lamp

- SAS indicator ramp
 Passenger airbag (from model year 1993)
 SRS sensor module and back-up power unit
 Seat belt pre-tensioner (mechanical up to 1991 inclusive, pyrotechnic from model year 1992).
 Driver airbag
- 6: Contact Reel
- 7: Data link connector (in the engine compartment)



SRS components, 940/S90/V90 1997-

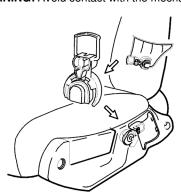
- 1: DLC (Data Link Connector)
- Passenger airbag
 SRS sensor module back-up power unit
 OBD II (Data Link Connector) S90/V90
- 5: SRS warning lamp
- 6: Pyrotechnic seat belt pre-tensioner 7: Contact Reel
- 8: Driver airbag



SIPS components, 960/S90/V90 1996-

- 1: Mechanical Sensor module (**Note:** The sensor is operative even when the power supply is interrupted).
- SRS ignition cable.
- 3: SIPS bag (mechanically activated).

WARNING! Avoid contact with the mechanical sensor.



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Secure the SIPS bag

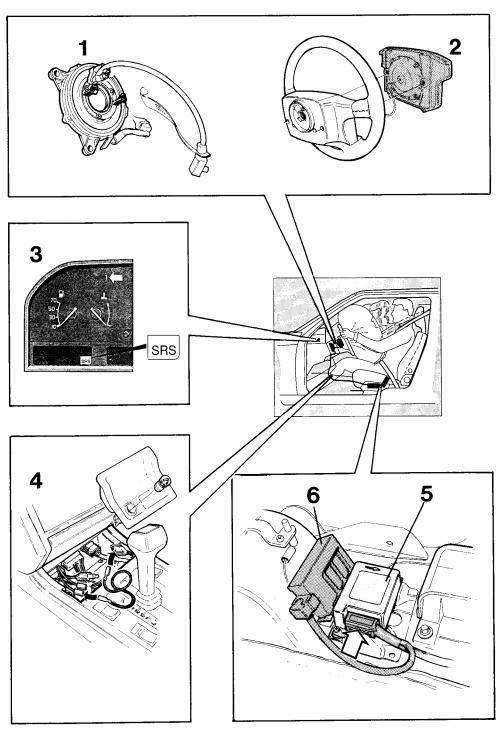
Remove:

 $Before \ starting \ service \ operations, \ lock \ the \ SIPS \ bag \ with \ the \ transport \ safety \ device \ according \ to \ the \ following:$

- the panel on the control panel
- the transit safety catch from the inside of the panel.

Install the transit safety catch in the sensor module.

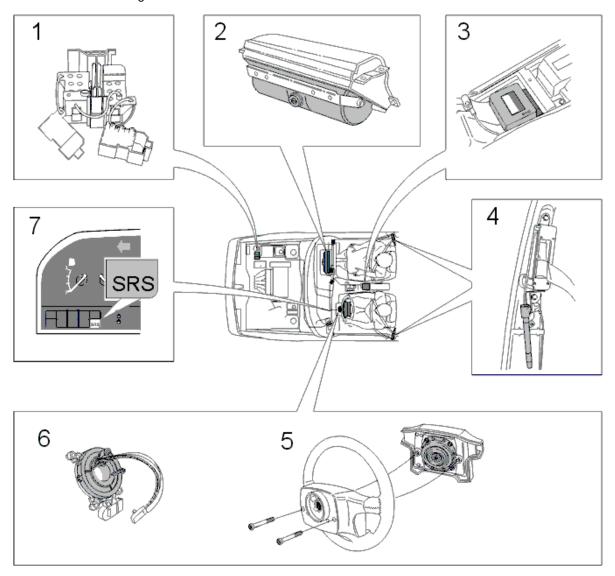
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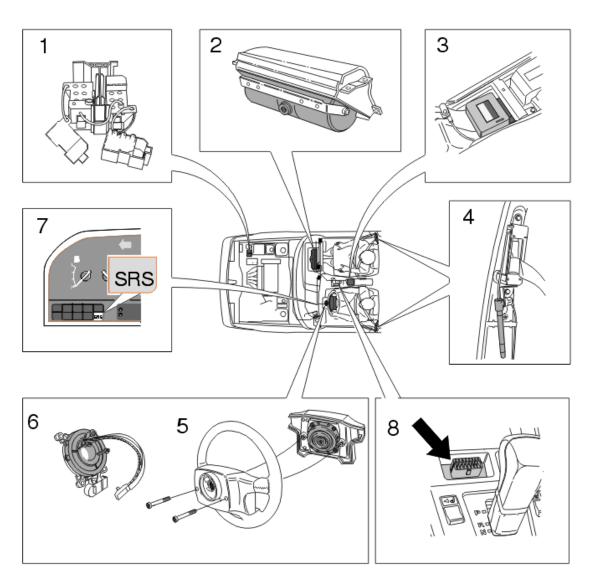
SRS components, 850 1992

- Contact Reel
 Driver airbag
 SRS indicator lamp
 Test output
 SRS sensor module
 Back-up power unit



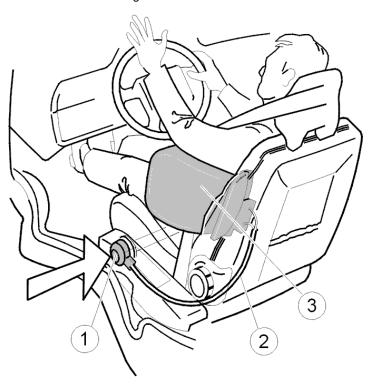
SRS components, 850 1993-1995

- DLC (Data link connector)
 Passenger airbag
 SRS sensor module and back-up power unit
 Seat belt pre-tensioner mechanical seat belt pre-tensioner (located at seat belt buckle attachment) up to 1993 inclusive, pyrotechnic from model year 1994).
 Driver airbag
 Contact Real
- 6: Contact Reel
- 7: SRS indicator lamp



SRS components, 850 1996-

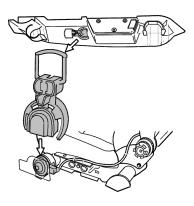
- 1: DLC (Data link connector)
- 2: Passenger airbag
- 3: SRS sensor module and back-up power unit
- 4: Seat belt pre-tensioner (mechanical seat belt pre-tensioner (located at seat belt buckle attachment) up to 1993 inclusive, pyrotechnic from model year 1994).
- 5: Driver airbag
- 6: Contact Reel
- 7: SRS indicator lamp
- 8: OBD II (Data link connector)



SIPS components, 850 1995-1997

- 1: Mechanical Sensor module (**Note:** The sensor is operative even when the power supply is interrupted).
- 2: SRS ignition cable
- 3: SIPS bag (mechanically activated)

WARNING! Avoid contact with the mechanical sensor.

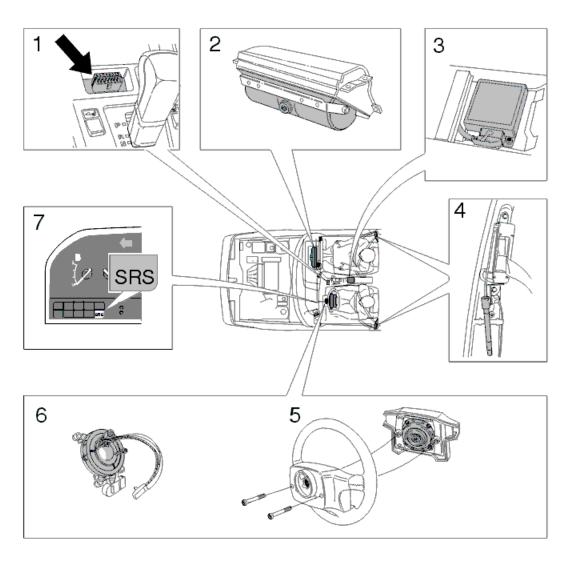


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Lock SIPS bag

Before starting service operations, lock the SIPS bag with the transport safety device according to the following:

- Lift up seat pocket. Lift the front edge and push the pocket backward.
- Remove transport safety device from its holder inside the seat pocket. (Supplied with all SIPS seats.)
- Attach transport safety device to sensor unit.



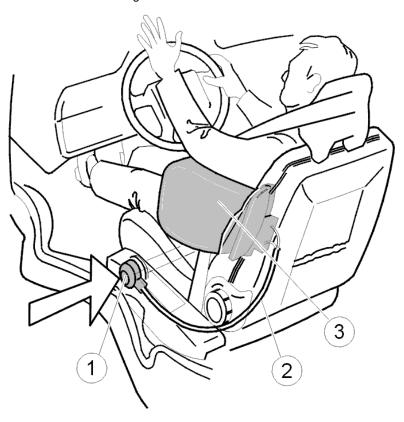
SRS components, S70/V70 (-00) 1997-1998

- 1: OBD II (Data link connector)

- 2: Passenger airbag
 3: SRS sensor module
 4: Pyrotechnic seat belt pre-tensioner
 5: Driver airbag

 Driver airbag

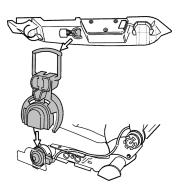
- 6: Contact Reel
 7: SRS warning lamp



SIPS components, S70/V70 (-00) -1998

- 1: Mechanical Sensor module (**Note:** The sensor is operative even when the power supply is interrupted).
- 2: SRS ignition cable
- 3: SIPS bag (mechanically activated)

WARNING! Avoid contact with the mechanical sensor.

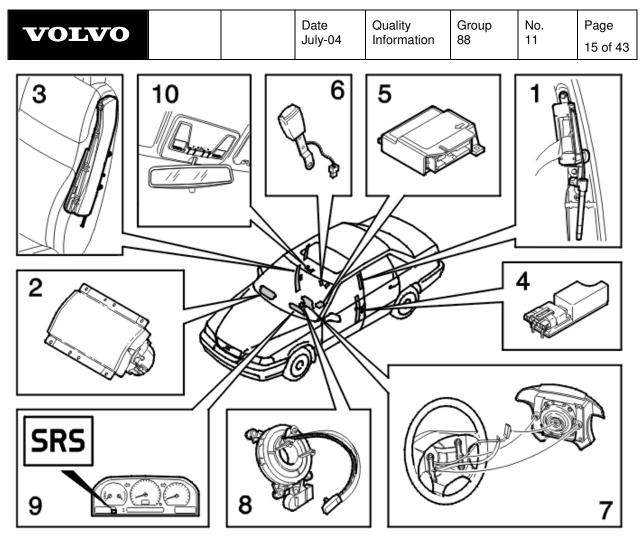


8800507A

Lock SIPS bag

Before starting service operations, lock the SIPS bag with the transport safety device according to the following:

- Lift up seat pocket. Lift the front edge and push the pocket backward.
- Remove transport safety device from its holder inside the seat pocket. (Supplied with all SIPS seats.)
- Attach transport safety device to sensor unit.

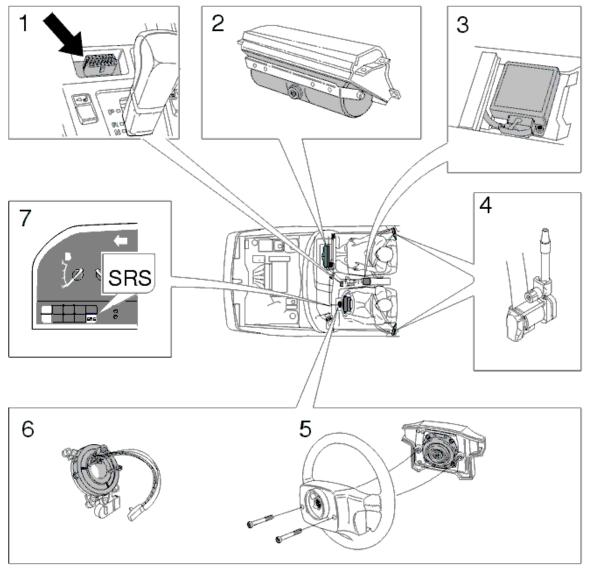


8803058B

SRS components, S70/V70 (-00) 1999-2000

- 1: Pyrotechnic seat belt pre-tensioner
- 2:
- Passenger airbag
 SIPS bag (electrically activated)
 Side impact sensor 3:
- 4:
- 5: SRS sensor module
 6: Seat belt buckle
 7: Driver airbag

- 8: Contact Reel
- 9: SRS warning lamp10: Seat belt reminder



8802691A

SRS components, C70 Coupé 1998

- 1: OBD II (Data link connector)
 2: Passenger airbag
 3: SRS sensor module
 4: Pyrotechnic seat belt pre-tensioner
 5: Driver airbag
 6: Contact Reel
 7: SRS warning lamp

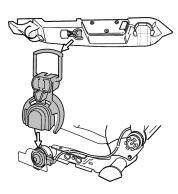




SIPS components, C70 Coupé 1998

- 1: Sensor module (Note: The sensor is operative even when the power supply is interrupted). SRS ignition cable
- SIPS bag (mechanically activated)

WARNING! Avoid contact with the mechanical sensor.

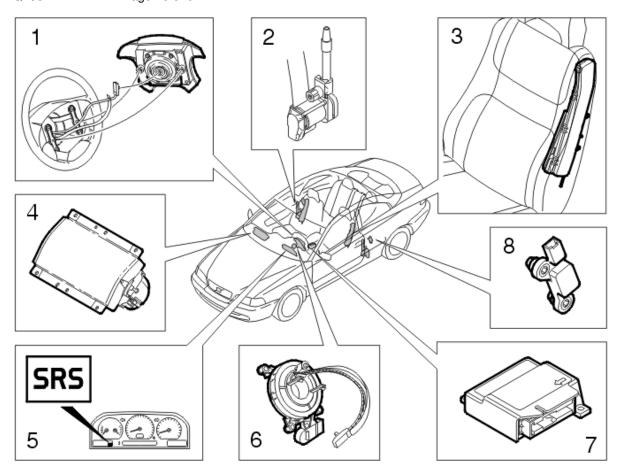


8800507A

Lock SIPS bag

Before starting service operations, lock the SIPS bag with the transport safety device according to the following:

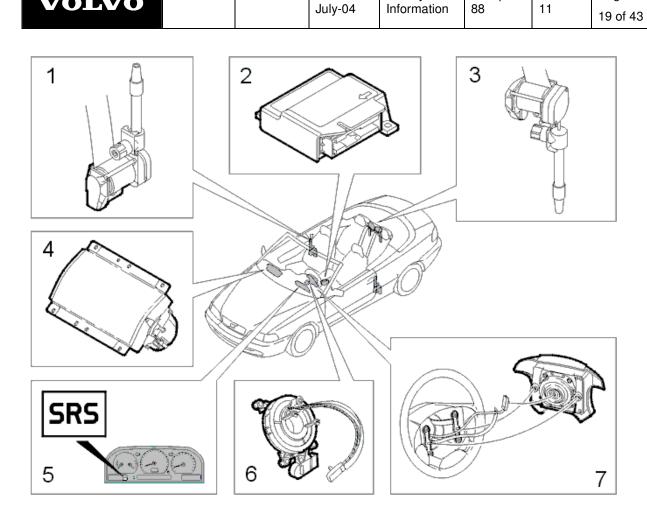
- Lift up seat pocket. Lift the front edge and push the pocket backward.
- Remove transport safety device from its holder inside the seat pocket. (Supplied with all SIPS seats.)
- Attach transport safety device to sensor unit.



SRS components, C70 Coupé 1999-

- 1: Driver airbag
 2: Pyrotechnic seat belt with seat belt pre-tensioner
 3: SIPS bag
 4: Passenger airbag
 5: SRS warning lamp
 6: Contact Reel
 7: SRS sensor module

- 8: Side impact sensors



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8801791A

SRS components, C70 Convertible 1998

- 1: Front pyrotechnical seat belt tensioner
 2: SRS control module
 3: Rear pyrotechnical seat belt tensioner
 4: Passenger airbag module
 5: SRS indicator lamp
 6: Contact Ree

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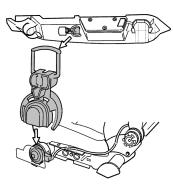
- 6: Contact Reel
 7: Steering wheel module



SIPS components, C70 Convertible 1998

- 1: Sensor module (**Note:** The sensor is operative even when the power supply is interrupted).
- 2: SRS ignition cable
- 3: SIPS bag (mechanically activated)

WARNING! Avoid contact with the mechanical sensor.



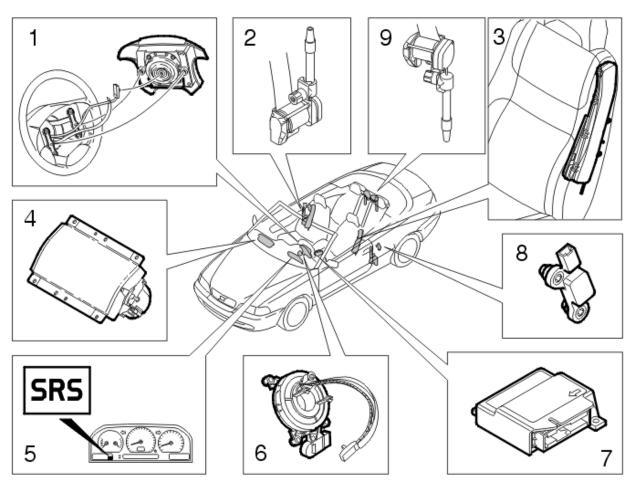
8800507A

Lock SIPS bag

Before starting service operations, lock the SIPS bag with the transport safety device according to the following:

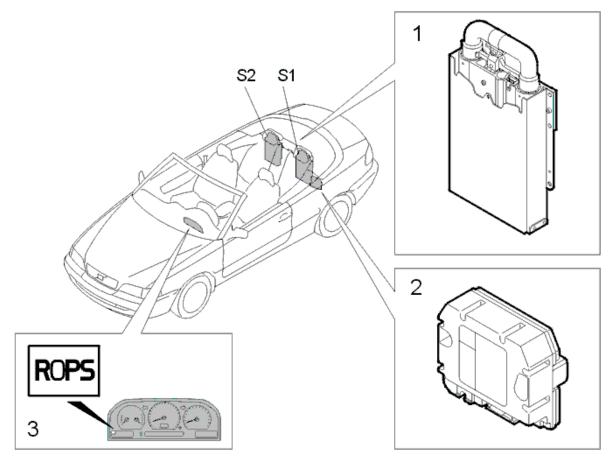
- Lift up seat pocket. Lift the front edge and push the pocket backward.
- Remove transport safety device from its holder inside the seat pocket. (Supplied with all SIPS seats.)
- Attach transport safety device to sensor unit.





SRS components, C70 Convertible 1999-

- Driver airbag 1:
- Pyrotechnic seat belt with seat belt pre-tensioner, front seats SIPS bag (electrically activated)
 Passenger airbag
 SRS warning lamp
 Contact Reel 2:
- 3:
- 4:
- 5:
- 6:
- 7: SRS sensor module
- 8: Electric side impact sensor (from MY 2000)
- Pyrotechnic seat belt with seat belt pre-tensioner, rear seat

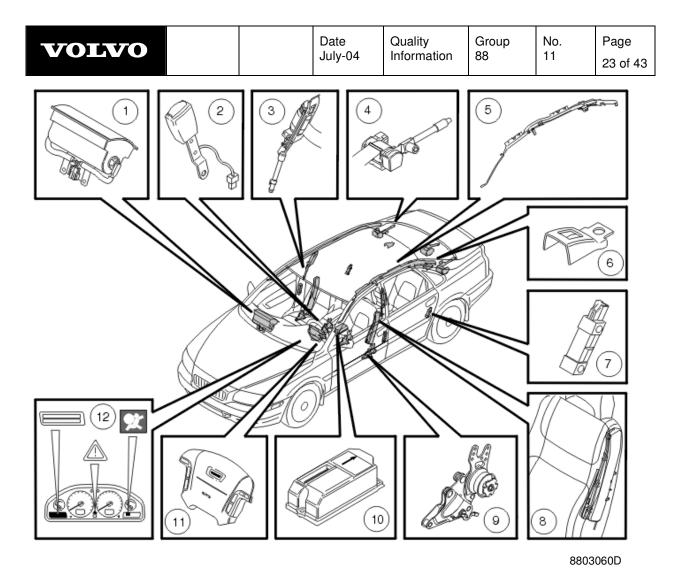


ROPS components, C70 Convertible 1998-2000

- 1:
- ROPS cassette ROPS control module ROPS indicator lamp

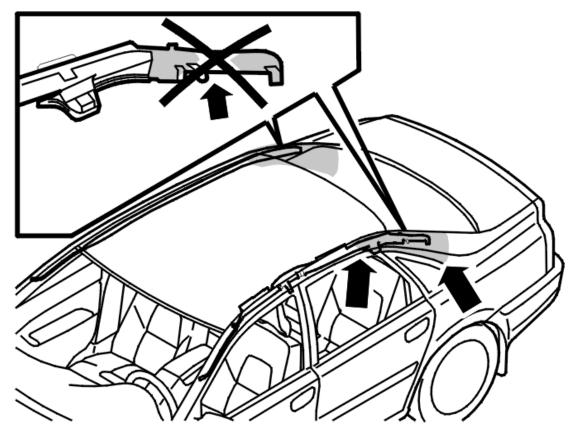
ROPS is activated by the sensor behind the head restraint. This sensor monitors the tilt of the car. ROPS is deployed by a built in coil spring and contains <u>no pyrotechnic material</u>.

WARNING! Do not work within the ROPS' radius of action when the vehicle is being tilted.



SRS components, S80 1999-

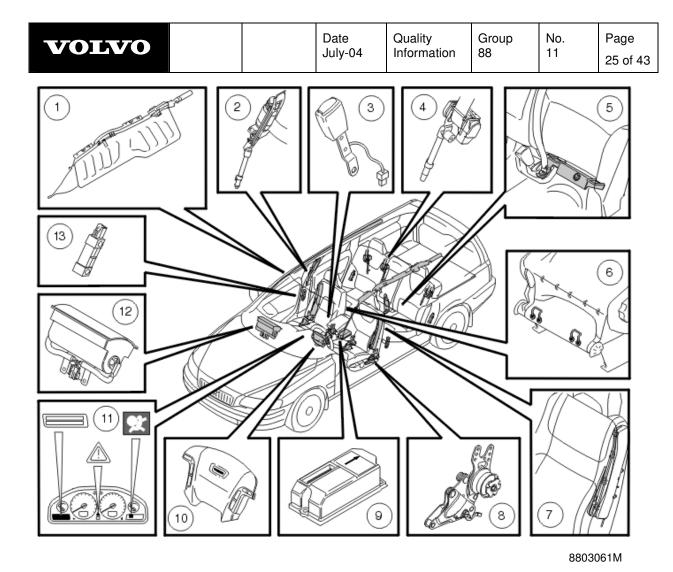
- Passenger airbag
- Seat belt buckle 2:
- Seat belt with pyrotechnic seat belt pre-tensioner, front seat Seat belt with pyrotechnic seat belt pre-tensioner, rear seat 3:
- 4:
- 5:
- Child seat anchorage for child seats (certain models only)
 Electric sensor in the B and C-pillars 6:
- 7:
- 8: SIPS bag
- 9: WHIPS
- 10: SRS sensor module
- 11: Driver airbag12: Combined instrument panel



8802995R

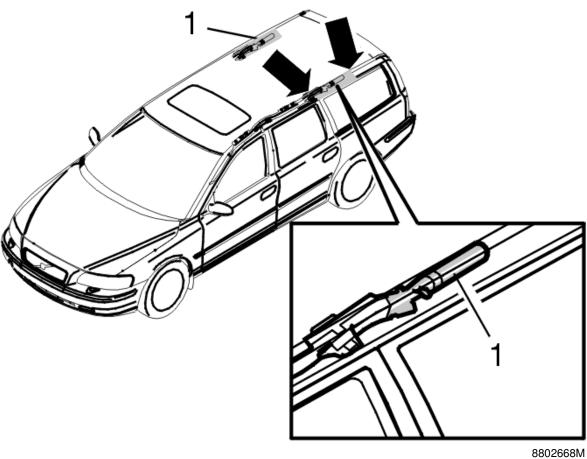
Inflatable curtains, S80 1999-

Important! If the roof needs to be cut open, avoid cutting the gas tubes (placed between the arrows) for the inflatable curtain system.



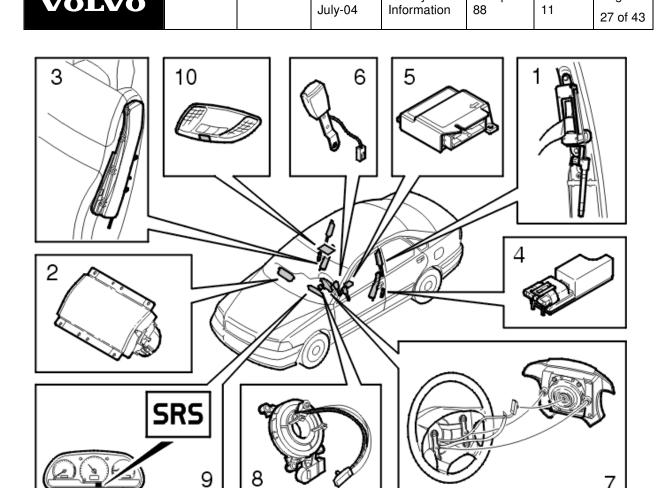
SRS components, V70 (01-)/V70 XC (01-)/XC70

- IC airbag
- 2: Seat belt with pyrotechnic seat belt pre-tensioner, front seat
- 3: Seat belt buckle
- 4: Seat belt with pyrotechnic seat belt per-tensioner, rear seat
- 5: Child seat anchorage for child seats (certain models only)
- 6: Child seat anchorage for child seats (certain models only)
- 7: SIPS bag
- 8: WHIPS
- 9: SRS sensor module
- 10: Driver airbag
- 11: Combined instrument panel
- 12: Passenger airbag
- 13: Sensor in the B and C-pillars



Inflatable curtains, V70 (01-)/V70 XC (01-) (USA) and XC70 $\,$

Important! For vehicles with inflatable curtains, if the roof needs to be cut open, avoid cutting the gas tubes (1) (placed between the arrows) for the inflatable curtain system.



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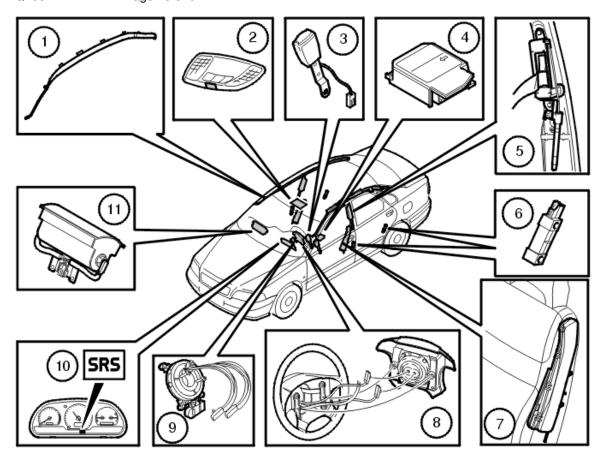
8803062G

SRS components, S40 (-04)/V40 2000

- 1: Pyrotechnic seat belt pre-tensioner

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- Passenger airbag
 SIPS bag (electrically activated)
 Side impact sensor
- 5: SRS sensor module6: Seat belt buckle
- 7: Driver airbag
- 8: Contact Reel
- 9: SRS warning lamp
- 10: Seat belt reminder



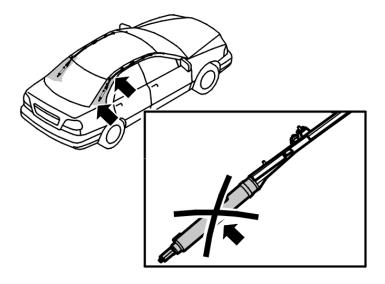
8803063G

SRS components, S40 (-04)/V40 2001

- 1: IC airbag
- Seatbelt reminder light
 Seat belt buckle with sensor
 SRS sensor module
- 4: SRS sensor module
 5: Seat belt with pyrotechnic seat belt pre-tensioner
 6: Sensor in the B and C-pillars
 7: SIPS bag
 8: Driver airbag
 9: Contact Reel
 10: SRS warning lamp
 11: Personner girbag

- 11: Passenger airbag

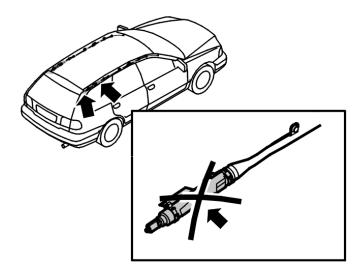




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Inflatable curtains, S40 (-04) 2001-

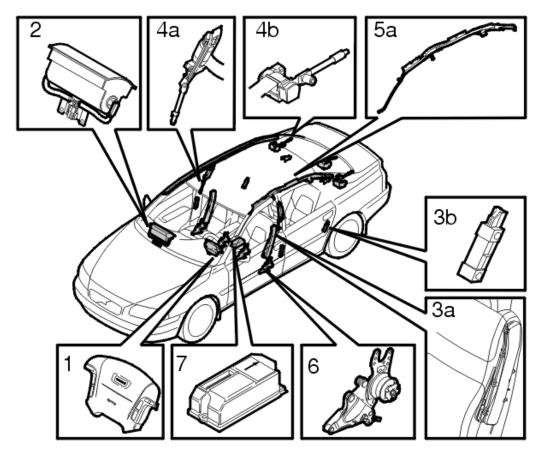
Important! For vehicles with inflatable curtains, if the roof needs to be cut open, avoid cutting the gas tubes (placed between the arrows) for the inflatable curtain system.



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Inflatable curtains, V40 2001-

Important! For vehicles with inflatable curtains, if the roof needs to be cut open, avoid cutting the gas tubes (placed between the arrows) for the inflatable curtain system.



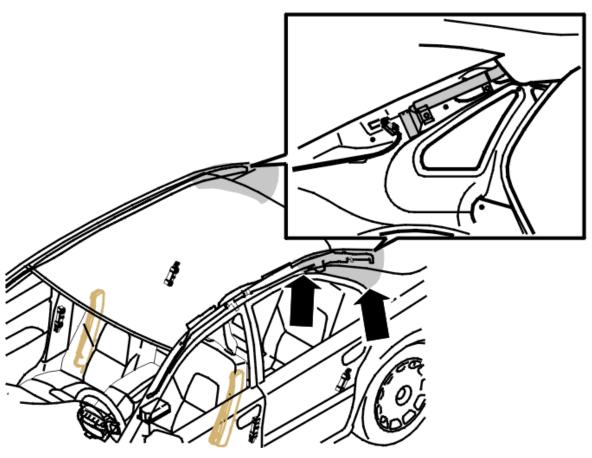
8803064D

SRS components, S60 2001-

- 1: Driver airbag
- 2: Passenger airbag3: a) SIPS bag
- b) Sensor in the B and C-pillars
 4: a) Seat belt with pyrotechnic seat belt pre-tensioner, front seats
 b) Seat belt with pyrotechnic seat belt pre-tensioner, rear seats

- 5: IC airbag 6: WHIPS 7: SRS sensor module

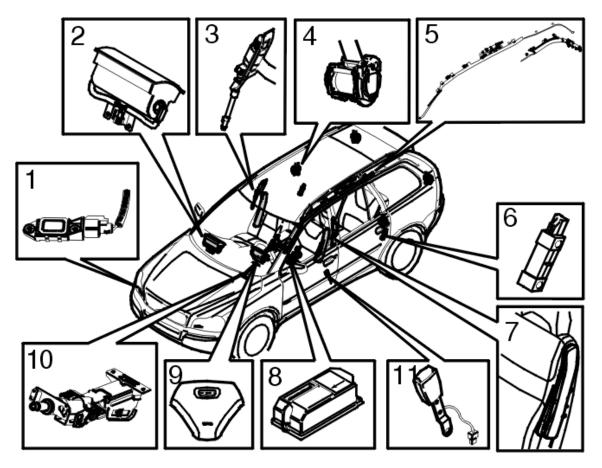
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Inflatable curtains, S60

Important! For vehicles with inflatable curtains, if the roof needs to be cut open, avoid cutting the gas tubes (placed between the arrows) for the inflatable curtain system.

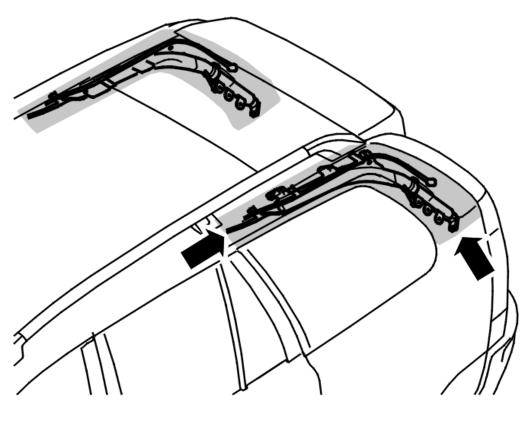


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SRS components, XC90

- 1: Frontal collision sensors, left and right, front
- 2: Passenger airbag
- 3: Seat belt with pyrotechnic seat belt pre-tensioner, front seats
- 4: Seat belt with pyrotechnic seat belt pre-tensioner, 2nd row. Seat belt pre-tensioners, 3rd row (7 seater models only).
 5: IC airbag, front and (rear, 7 seater models only)
- 6: Sensor in the B and C-pillars, left and right
- 7: SIPS bag, left and right, front
- 8: SRS sensor module
- 9: Driver airbag
- 10: Steering column
- 11: Seat belt buckle, left and right, front

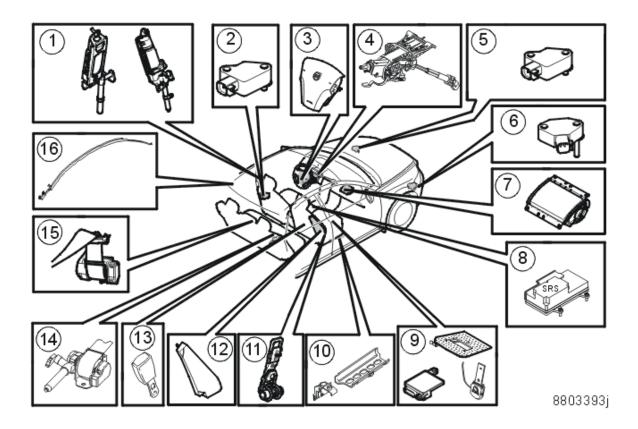
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Inflatable curtains, XC90

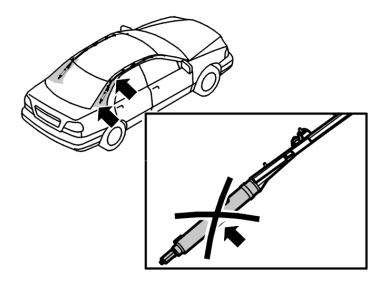
Important! For vehicles with inflatable curtains, if the roof needs to be cut open, avoid cutting the gas tubes (placed between the arrows) for the inflatable curtain system.



SRS components, S40 (04.5-)/V50 (USA/CDN) 2005-

- Adaptive seat belt pre-tensioner, left and right, front
- 2: Sensor in the B- and C-pillars, left and right
- 3: Driver airbag
- Collapsible steering column 4:
- Sensor, left, front 5:
- 6: Sensor, right, front 7: Passenger airbag
- 8: SRS sensor module
- 9: OWS
- 10: Set track sensor, left and right, front11: Anchor plate load limiter, left and right, front
- 12: SIPS airbag, left and right, front
- 13: Seat belt buckle, left and right, front
- 14: Seat belt with pyrotechnic seat belt pre-tensioner, left and right, rear
- 15: Seat belt, rear, center (non pyrotechnic)
- 16: IC airbag, left and right

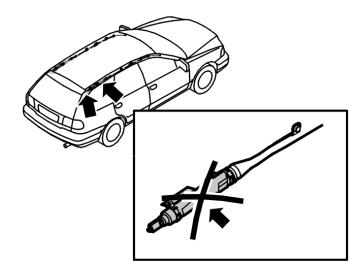




8802671G

Inflatable curtains, S40 2004.5-

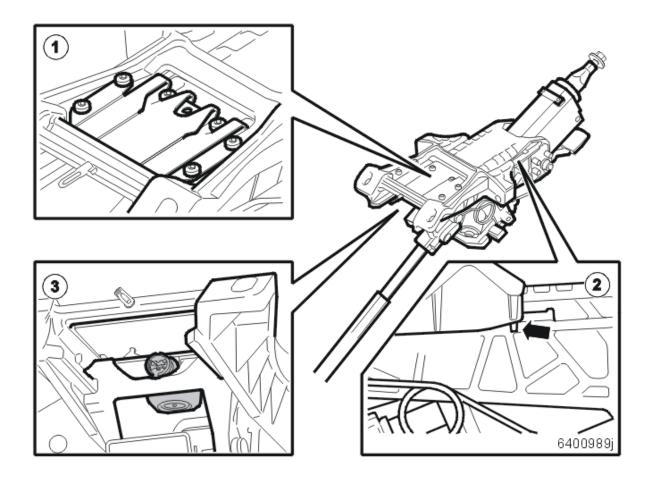
Important! For vehicles with inflatable curtains, if the roof needs to be cut open, avoid cutting the gas tubes (placed between the arrows) for the inflatable curtain system.



8802672G

Inflatable curtains, V50 2005-

Important! For vehicles with inflatable curtains, if the roof needs to be cut open, avoid cutting the gas tubes (placed between the arrows) for the inflatable curtain system.



SRS components, S40 (04.5-)/V50 (USA/CDN) 2005-

- 1: Deformation element
- 2: Marking
- 3: Igniter

Collapsible steering column (USA/CDN)

- When the collision protection system in the collapsible steering column is activated, a pin deploys enabling the steering column to be adjusted for length. If the level of a frontal collision exceeds a certain level, the steering wheel is pressed in further towards the dashboard than if the steering column was rigid.
- Control of the vehicle is not affected by the triggered pin. A pyrotechnic charge causes the pin to deploy and is positioned in the center of the steering column. The collision protection system in the collapsible steering column only operates if the driver has his/her seat belt fastened and when the air bag is deployed.
- The steering column has a mark which indicates that the steering column has collapsed.

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Location of decals showing the existing airbag system in the car

Decals

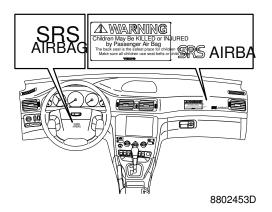
There are decals both inside and outside the vehicle with warnings and information about the SRS system in the car.

There is information in the following places.



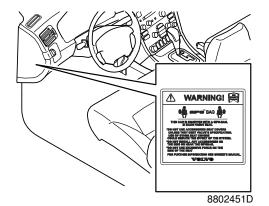
Exterior decals

The decal on the driver's side of the windshield indicates that the vehicle is equipped with air bags in the steering wheel, dashboard, and seats.



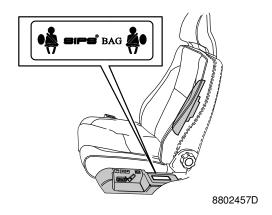
Interior decals

There are decals or embossed stamps on the steering wheel and dashboard indicating that the vehicle is equipped with driver and passenger airbags.



On the end of the driver's side of the dashboard there is a decal indicating that the seats are equipped with SIPS airbags.

Note! Does not pertain to S40 (-04)/V40.



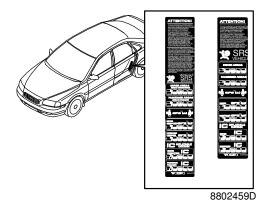
There is a decal or embossed stamp on the side compartment on the seat indicating that the seat is equipped with a SIPS airbag.

Note! Does not pertain to S40 (04.5-)/V50.



In certain markets, there are decals on the sun visors indicating that the vehicle has airbags.

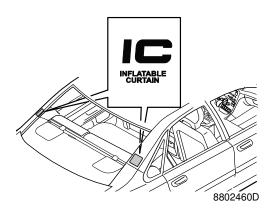
8802456D



There is a decal in the door opening for the rear side door showing all the airbag systems in the car.

In the C70 the decal is positioned on the lower section of the B-pillar.

In the S40 (-04)/V40 for USA/Canada, the decal is positioned on the lower section of the B-pillar.



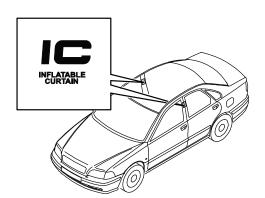
S80

There is an embossed stamp on the C/D-pillars interior trim indicating that the vehicle is equipped with inflatable curtains.



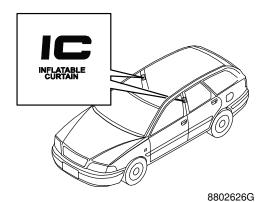
V70 (01-)/V70 XC (01-)/XC70

There is an embossed stamp on the B-pillars interior trim indicating that the vehicle is equipped with inflatable curtains.



S40 (-04)

There is an embossed stamp on the B-pillars interior trim indicating that the vehicle is equipped with inflatable curtains.



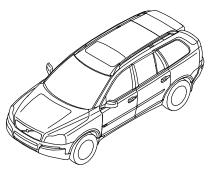
V40

There is an embossed stamp on the B-pillars interior trim indicating that the vehicle is equipped with inflatable curtains.



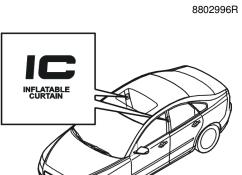
S60

There is an embossed stamp on the B-pillars interior trim indicating that the vehicle is equipped with inflatable curtains.



XC90

The XC90 does **not** have the embossing which indicates that the vehicle has inflatable curtains.



S40 (04.5-)

8803384J

There is an embossed stamp on the B-pillars interior trim indicating that the vehicle is equipped with inflatable curtains.

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V50

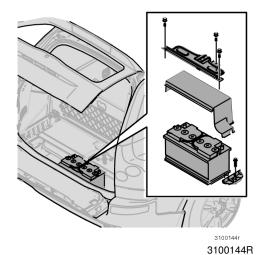
There is an embossed stamp on the B- and C-pillars interior trim indicating that the vehicle is equipped with inflatable curtains.

Interrupt the power supply

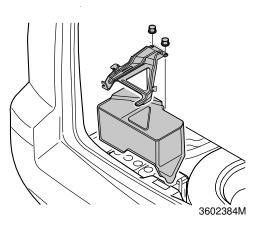
It is essential that the power supply is disconnected before the SRS system is subject to any shocks or vibration. If the ignition cannot be switched off, the battery must be disconnected.

The battery for S60/V70 (01-)/V70 XC (01-)/XC70/S80/XC90 are located in the cargo compartment (trunk). See illustrations below. The illustration shows the battery in the cargo compartment.

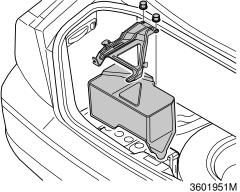
On all other models the battery is located under the hood.



XC90



V70 (01-)/V70 XC (01-)/XC70



S80/S60

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Information about laminated side window glass

The glass in the side windows may be laminated.

NOTE! There is no marking to indicate that the glass is laminated.

This type of glass can only be broken with emergency tools and specialist saws which are equipped to saw through laminated windshields.

Saw through the side windows the same way as a windshield.

Make a hole and insert the saw. Saw into the window and lift it out.