

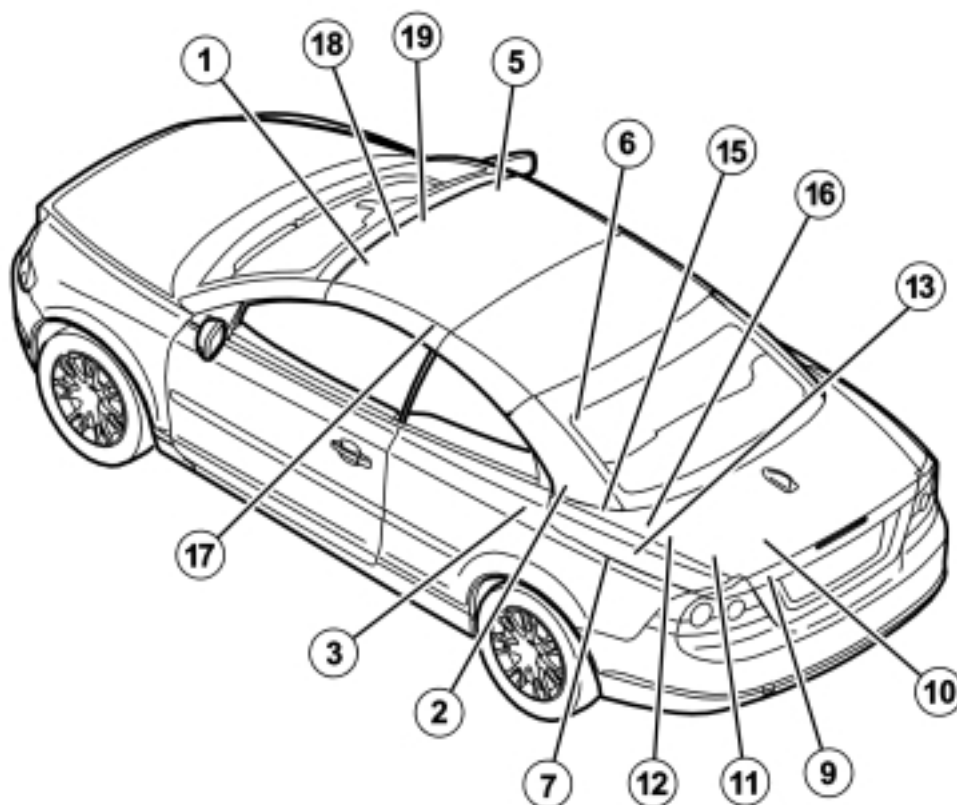
Convertible roof

Hall sensor, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

1

Positioning the hall sensor



IMG-232024

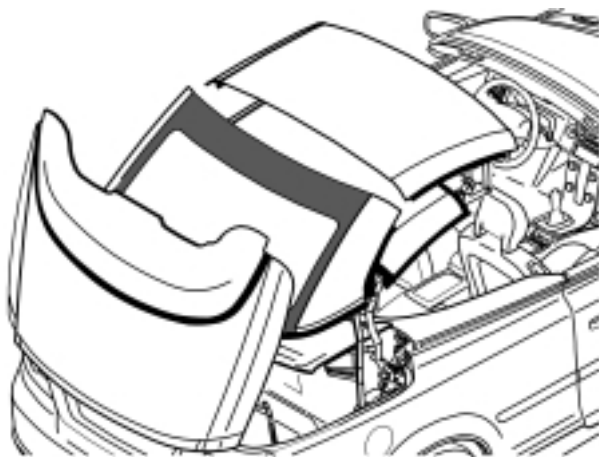
There are 14 hall sensors at the locations illustrated.

Number 2 and 17 in the illustration are position sensors for the rear and front roof sections respectively.

Preparatory work

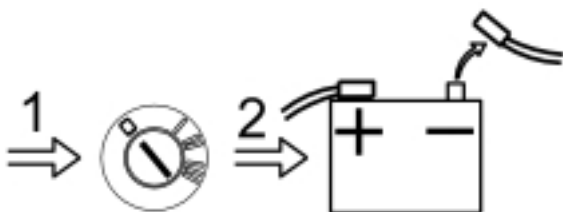
2

Applies to all hall sensors.

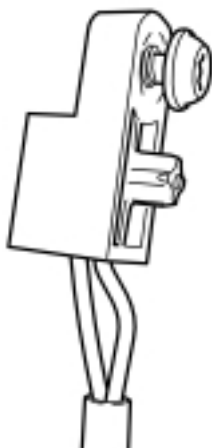


IMG-

223901



A8800136



IMG-

223903

Removal

3

Applies to all hall sensors.

4

Removing the hall sensor

Remove 1 screw.

5

Splicing the cables

Splice the cable harness for the Hall sensors. See: VCC-152102-1, Joining cables.

Removing/installing

6

Removing hall sensor no. 1

Remove the panel as described in VCC-255601-1, Panel, upper windshield member, replacing.

Remove the screw, 1 x M4 (0.5 Nm).

7

8

Removing hall sensor no. 3

Remove the side panel as described in VCC-261406-1, Rear seat side panel, replacing.

Remove the screw, 1 x M4 (1.5 Nm).

9

10

Removing hall sensor no. 5

Remove the panel as described in VCC-255601-1, Panel, upper windshield member, replacing.

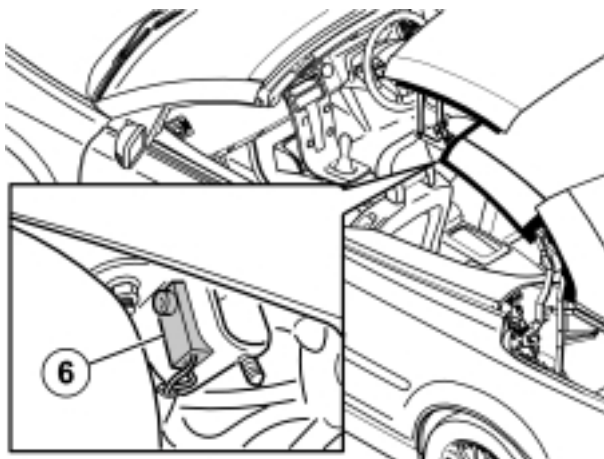
Remove the screw, 1 x M4 (0.5 Nm).

11

12

Removing hall sensor no. 6

Remove the screw, 1 x M4 (0.5 Nm).



IMG-

224721

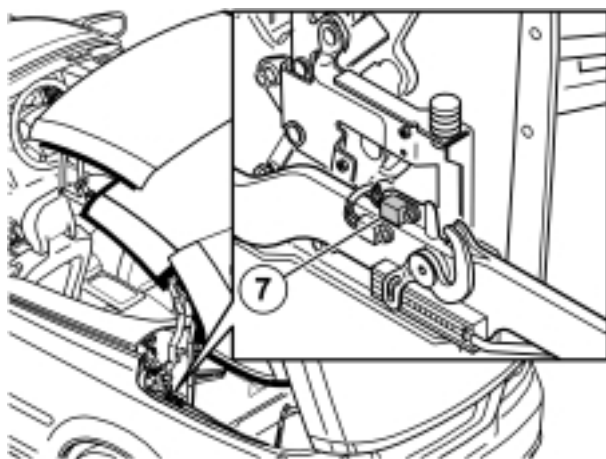
13

14

3

Removing hall sensor no. 7

Remove the screw, 1 x M4 (2.2 Nm).



IMG-

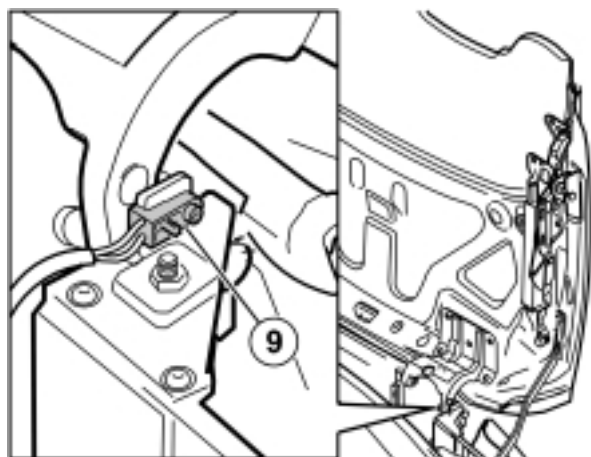
224729

15

16

Removing hall sensor no. 9

Remove the screw, 1 x M4 (2.2 Nm).



IMG-

224726

17

18

Removing hall sensor no. 10

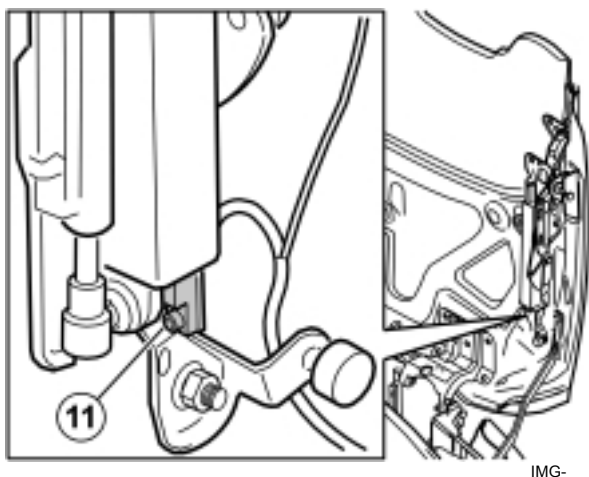
Remove the load limiter as described in VCC-280725-1, Rear locking, load limiter, replacement..

19

20

Removing hall sensor no. 11

Remove the screw, 1 x M4 (2.2 Nm).



IMG-

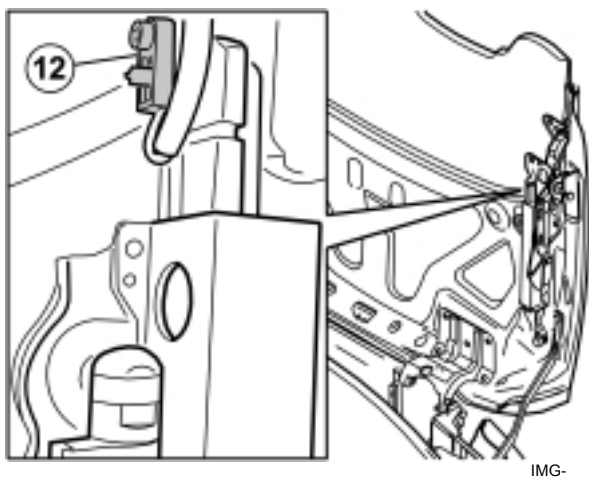
224727

21

22

Removing hall sensor no. 12

Remove the screw, 1 x M4 (2.2 Nm).



IMG-

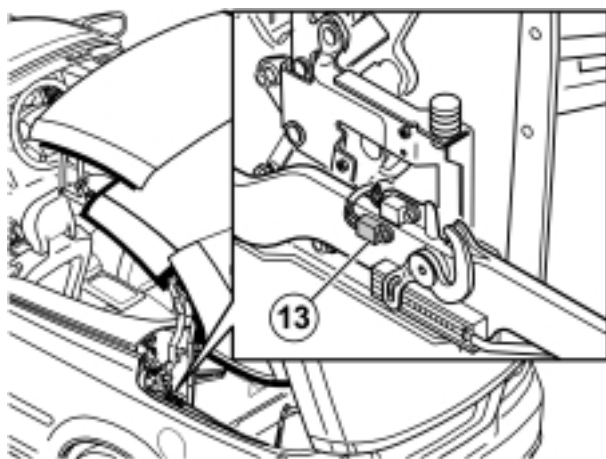
224728

23

24

Removing hall sensor no. 13

Remove the screw, 1 x M4 (2.2 Nm).



IMG-

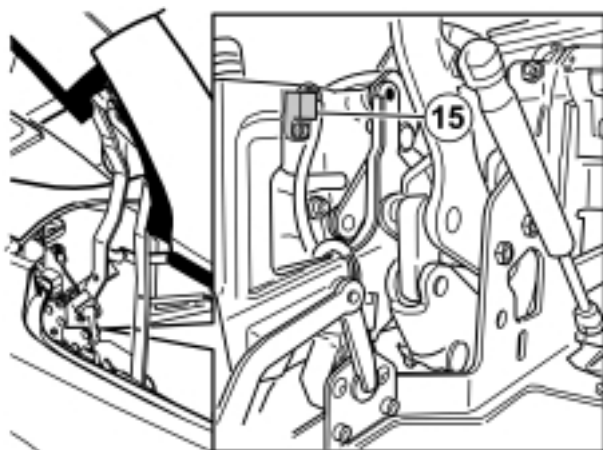
224724

25

26

Removing hall sensor no. 15

Remove the screw, 1 x M4 (1.8 Nm).



IMG-

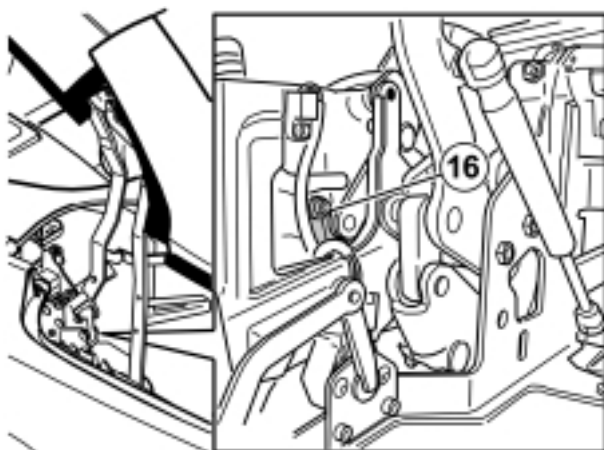
224722

27

28

Removing hall sensor no. 16

Remove the screw, 1 x M4 (1.8 Nm).



IMG-

224723

29

30

Removing hall sensor no. 18

Remove the headlining as described in sida 13Front headlining, replacing.

Remove the screw, 1 x M4 (1.8 Nm).

31

32

Removing hall sensor no. 19

Remove the headlining as described in sida 13Front headlining, replacing.

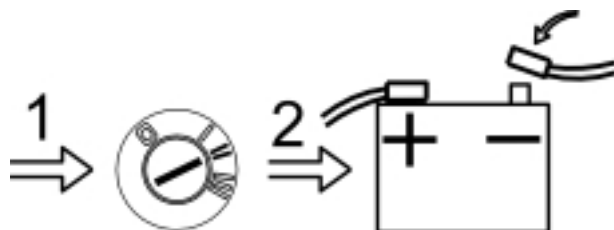
Remove the screw, 1 x M4 (1.8 Nm).

33

Install in the reverse order.

Finishing

34



35

Viktigt! Check the function of the roof by closing the roof, opening it and then closing it again.

A8800137

Position sensor, convertible roof, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

1

Method contents:

This method consists of:

- sida 10 Position sensor, front, replacing
- sida 11 Position sensor, rear, replacing.

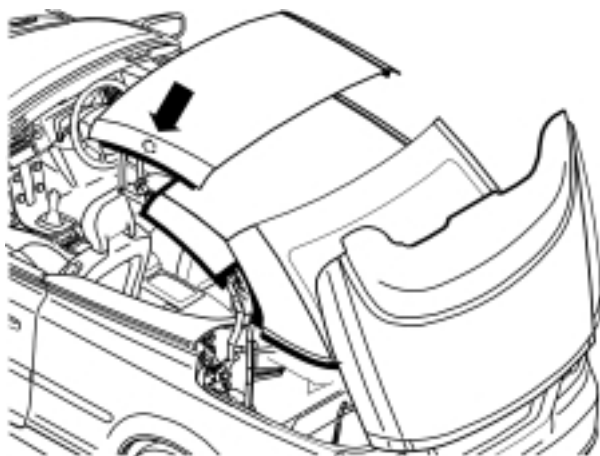
Position sensor, front, replacing

2

Removing the front position sensor, convertible roof

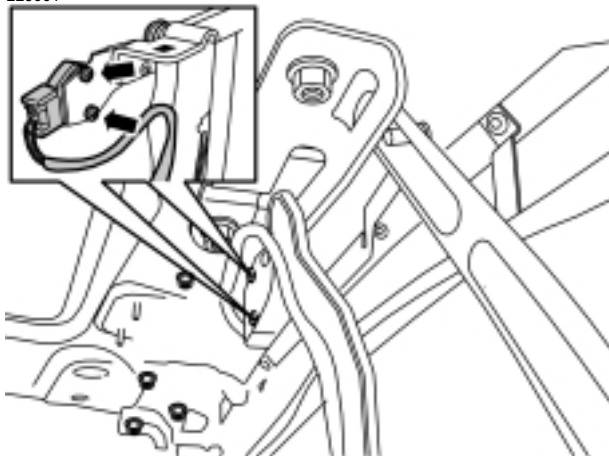
Switch off the ignition.

Detach the negative battery cable.



IMG-

225001

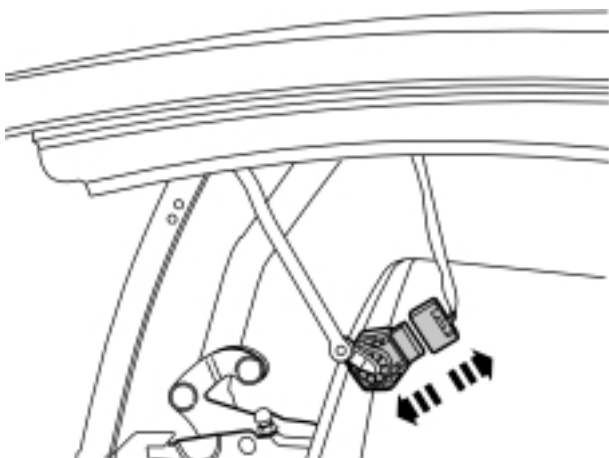


IMG-

225003

Detach the front headlining on the left side as described in sida 13Front headlining, replacing

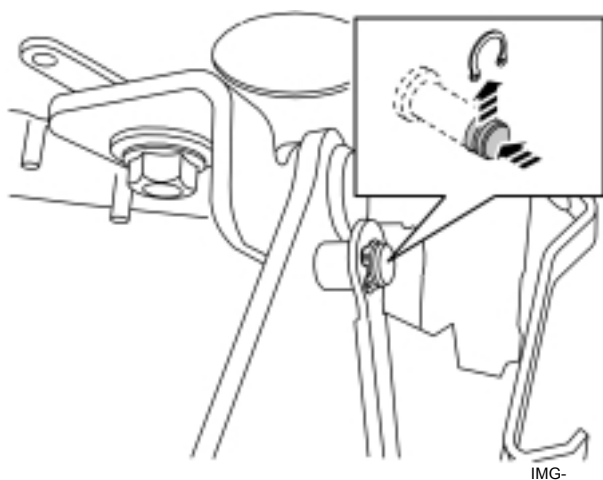
Remove the 2 screws.



IMG-

225004

Remove the connector.



Remove the locking washer.

225005

IMG-

Installation

3

Installing the front position sensor, convertible roof

Install in the reverse order.

Finishing

4

Initiate the position sensor. See VIDA Vehicle communication, Position sensor calibration.

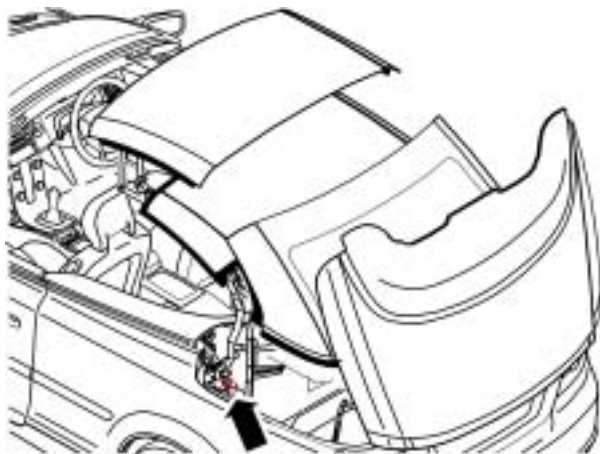
Position sensor, rear, replacing

5

Removing the rear position sensor, convertible roof

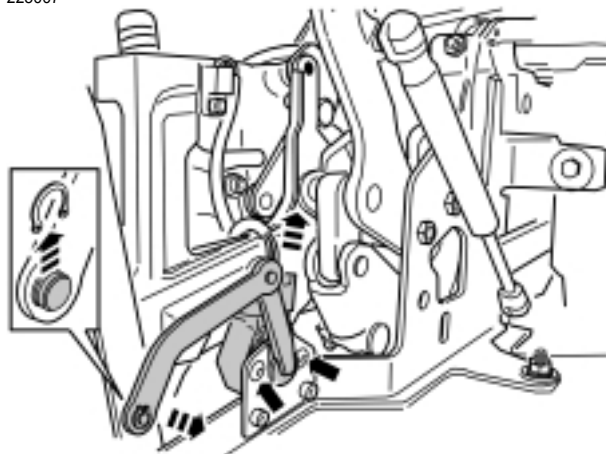
Switch off the ignition.

Detach the negative battery cable.



IMG-

225007



IMG-

225008

Remove:

- the 2 screws
- the connector
- the locking washer.

Installation

6

Installing the rear position sensor, convertible roof

Install in the reverse order.

Finishing

7

Initiate the position sensor. See VIDA Vehicle communication, Position sensor calibration.

Front headlining, replacing

Obs! As the illustrations in this service information are used for different model years and / or models, some variation may occur. However, the essential information in the illustrations is always correct.

Preparatory work

1

Removal

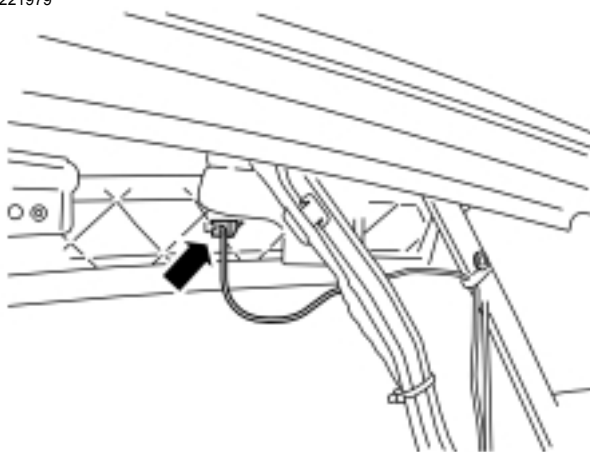
2

Removing the front headlining



IMG-

221979



IMG-

221980

Remove:

- the 2 front wire attachments as described in sida 24Headlining wire, replacing sida 24Headlining wire, replacing

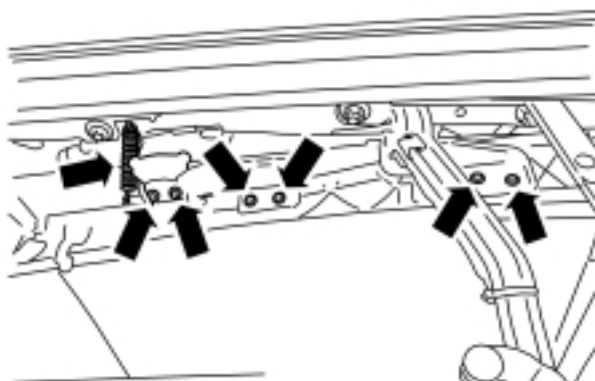
- 4 screw clips



IMG-

221981

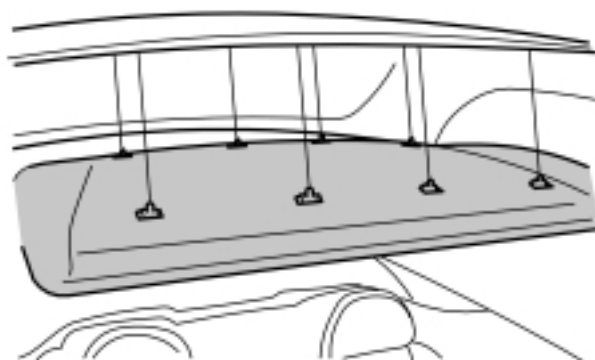
- 1 spring on each side
- 6 screws on each side



IMG-

221982

- 8 clips



IMG-

221983

Transferring components

3

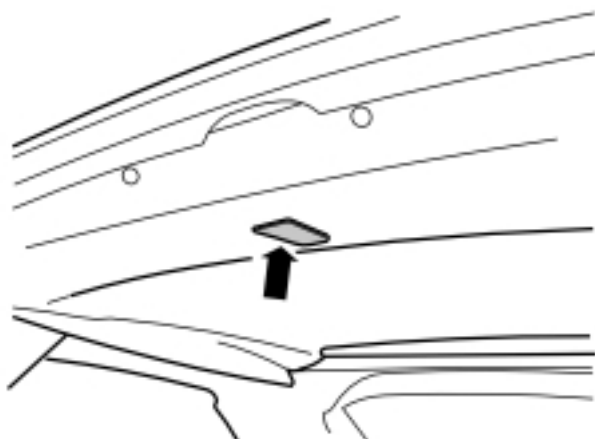
Transferring the cover

Installation

4

Installing the front headlining

Install in the reverse order.



IMG-

221984

Rear headlining, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

Removal

1

Removing the rear headlining

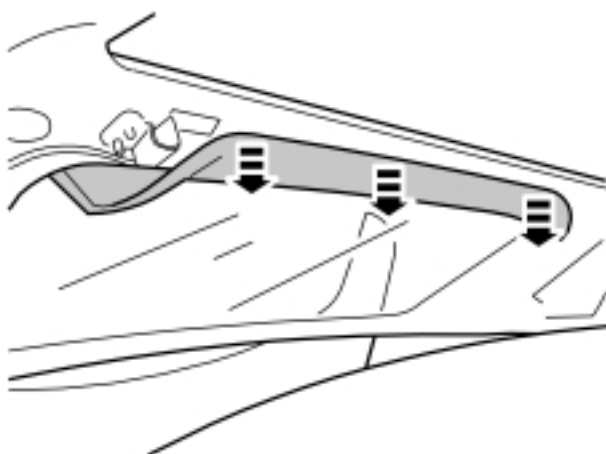
Remove:

- the plate clips - 2 per side
- the hooks - 2 per side.



IMG-

221760



IMG-

221761

Pull the panel straight down at the front edge, where it is engaged with 5 hooks

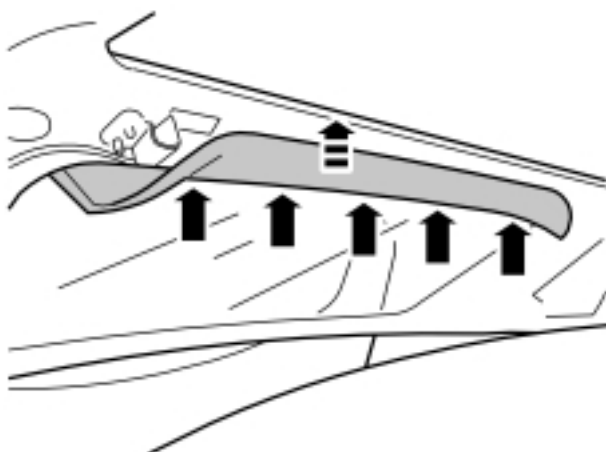
Installation

2

Installing the rear headlining

Guide the rear edge of the headlining against the rear window.

Engage the 5 hooks at the front edge.



IMG-

221762



IMG-

221760

Install:

- the hooks - 2 per side
- the plate clips - 2 per side.

Center headlining, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

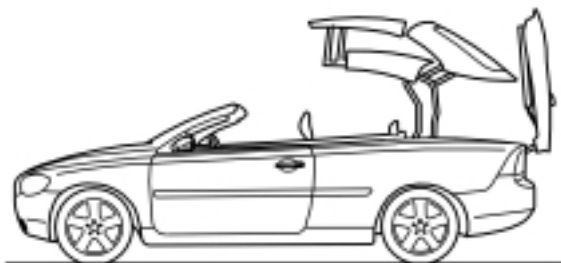
Preparatory work

1

Removal

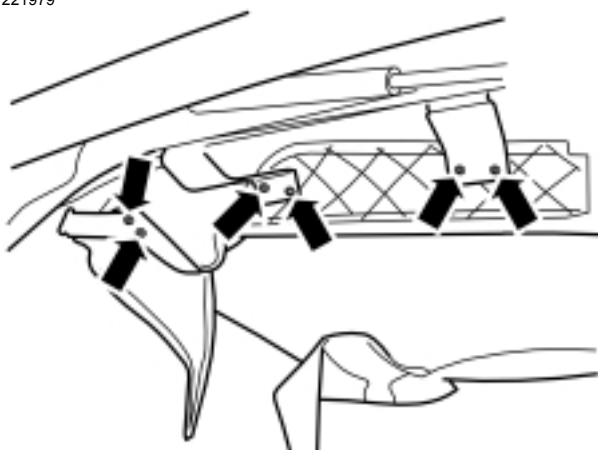
2

Removing the center headlining



IMG-

221979



IMG-

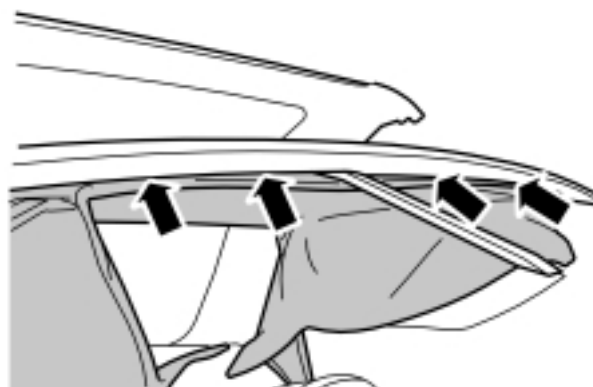
222000

Remove:

- the wire retainers on the left and right side as described in sida 24Headlining wire, replacing
- the screws - 6 per side.

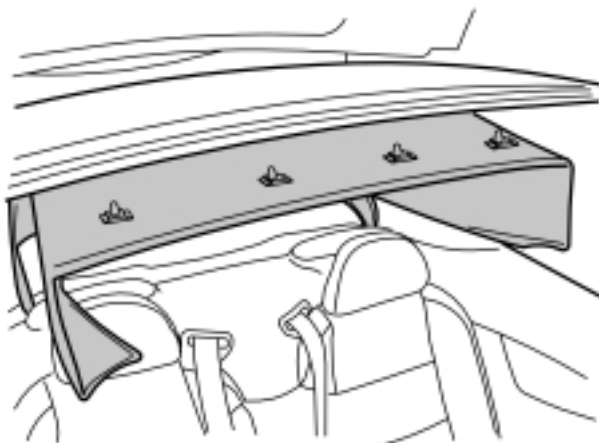
Viktigt! Use a clip remover and break the nearest clip.

Remove the 4 clips in the front edge.



IMG-

222001



222002

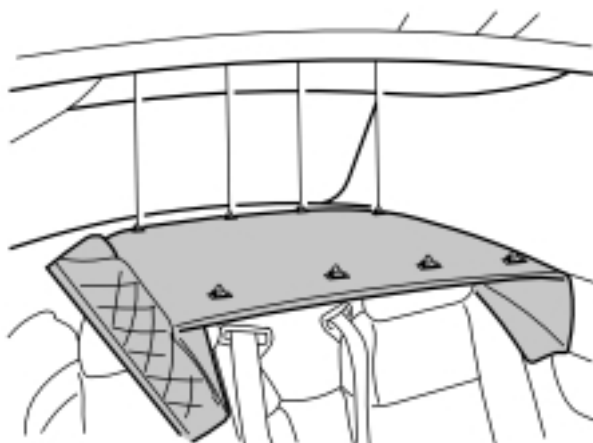
IMG-

Remove the 4 clips in the rear edge.



222003

IMG-



222004

IMG-

Installation

3

Installation

Install in the reverse order.

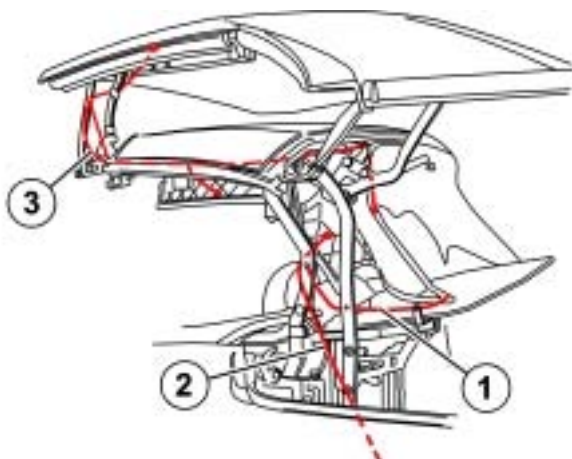
Headlining wire, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

Preparatory work

1

Put the roof in position as illustrated so that wires (1), (2) and/or (3) can be replaced.



IMG-

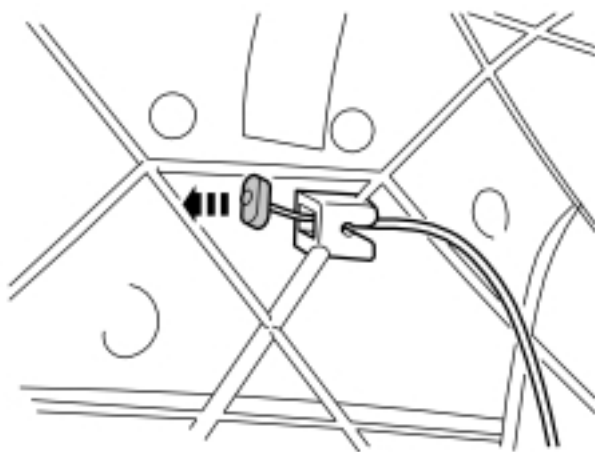
226186

Removal

2

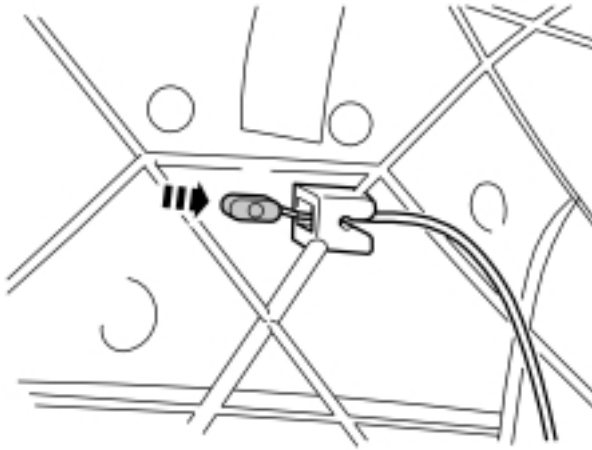
Removal of headlining wire

Unhook the wire attachments, 3 off, from the headlining, 1 per wire.



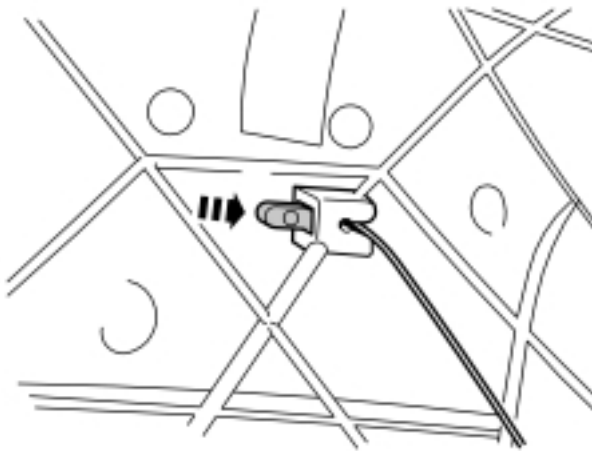
IMG-

225006



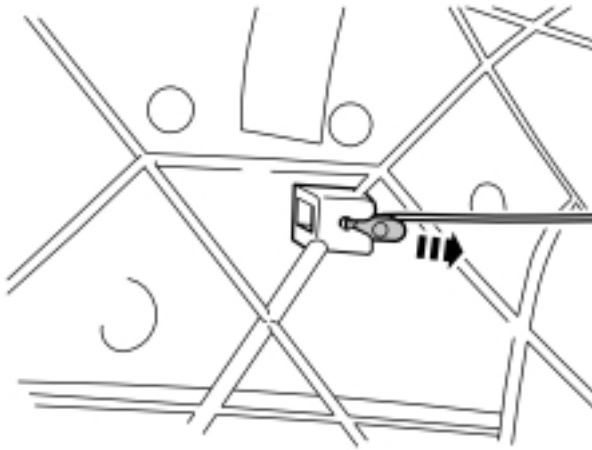
IMG-

225011



IMG-

225012

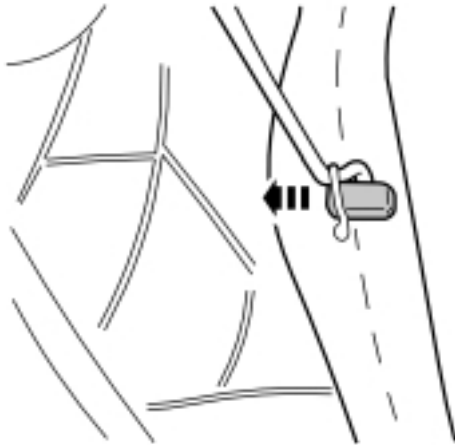


IMG-

225013

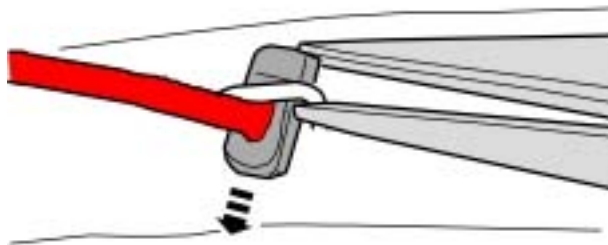


IMG-



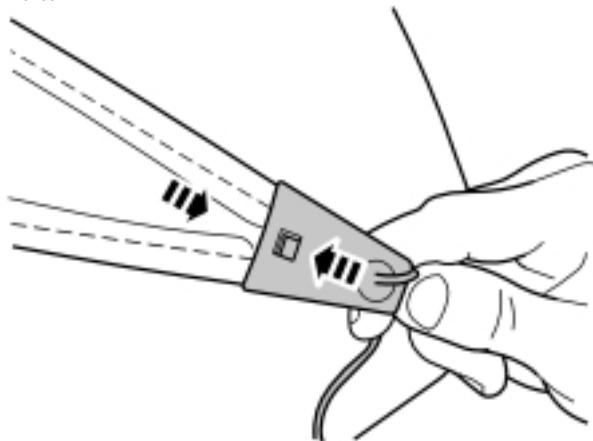
IMG-

225018



IMG-

226105

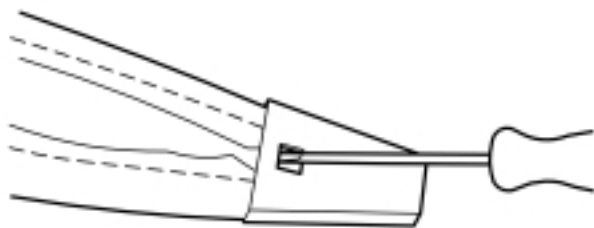


IMG-

225021

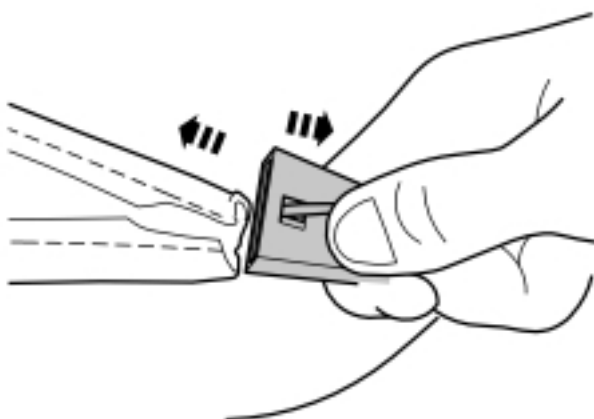
Remove the rear wire attachment.
Press together the headlining and wire attachment.

Tips: Use a small flat screwdriver.



IMG-

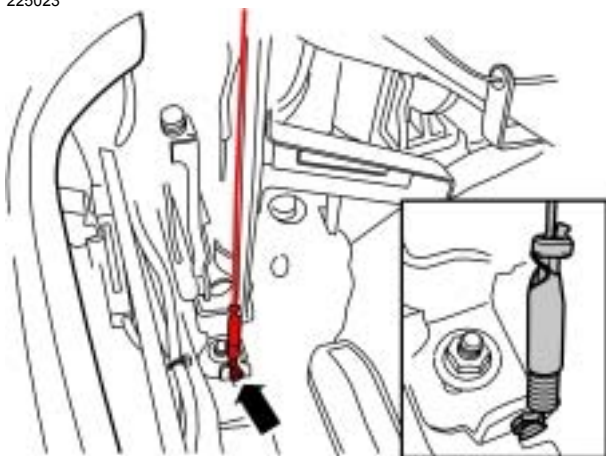
225022



IMG-

225023

Remove the screw, 1 x M5.



IMG-

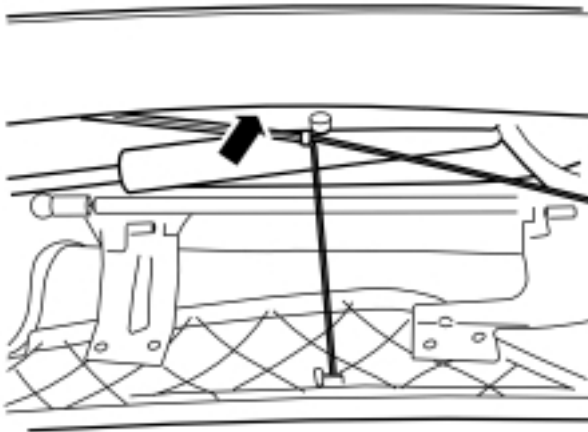
225025



Remove the screw, 1 x M5.

225026

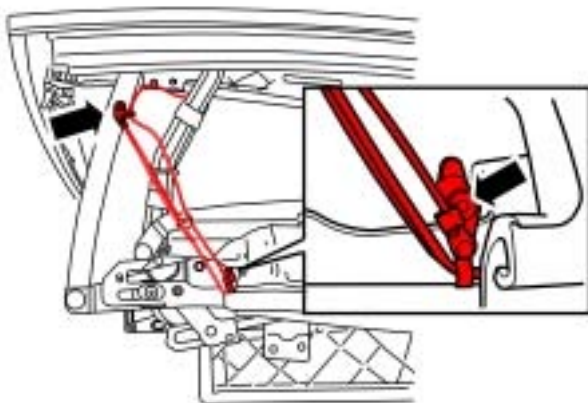
IMG-



Remove the screw, 1 x M5.

225027

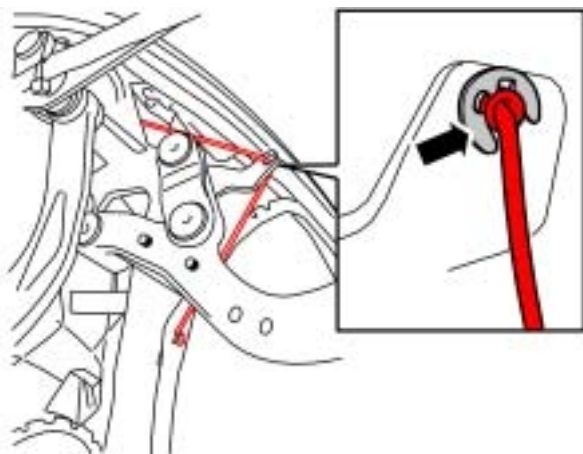
IMG-



Remove the screws, 2 x M5.

226102

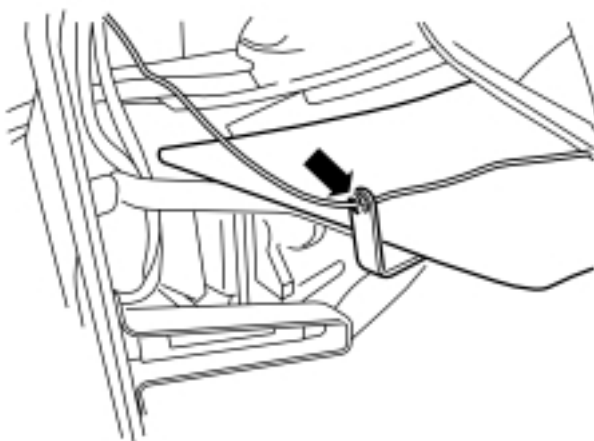
IMG-



226104

IMG-

Remove the lock washer, 1 off.



225031

IMG-

Remove the lock washer, 1 off.

Installation

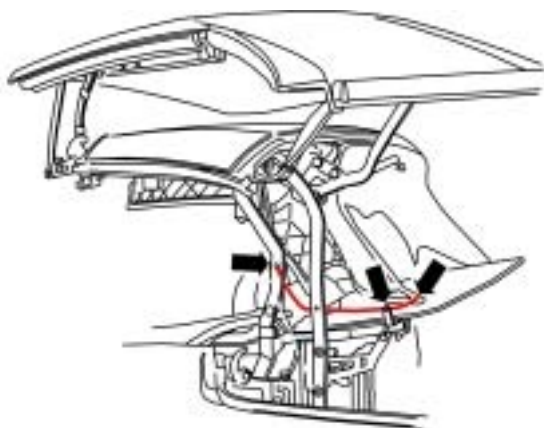
3

Installation of headlining wire

Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

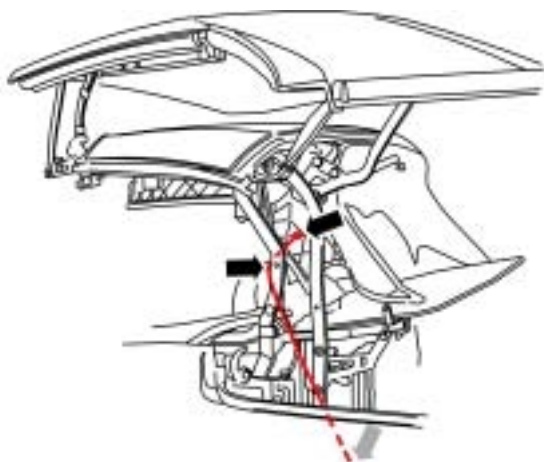
Viktigt! Wire routing.

Install in the reverse order.



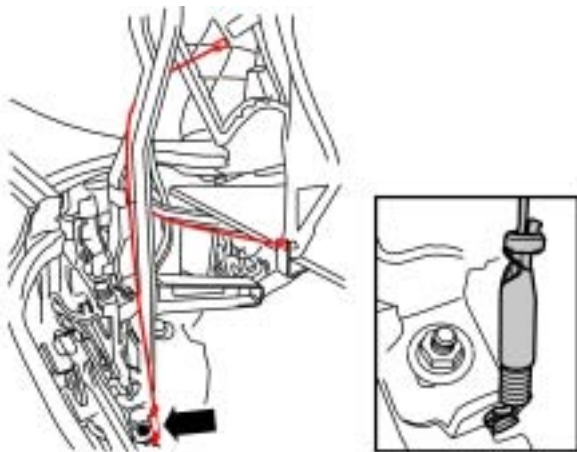
IMG-

226185



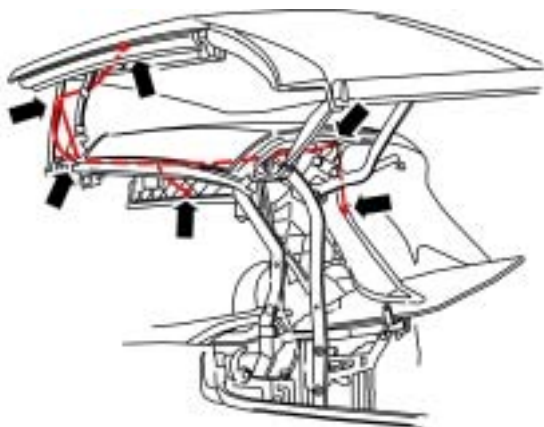
IMG-

226184



IMG-

226103



IMG-

Roof link system, right, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

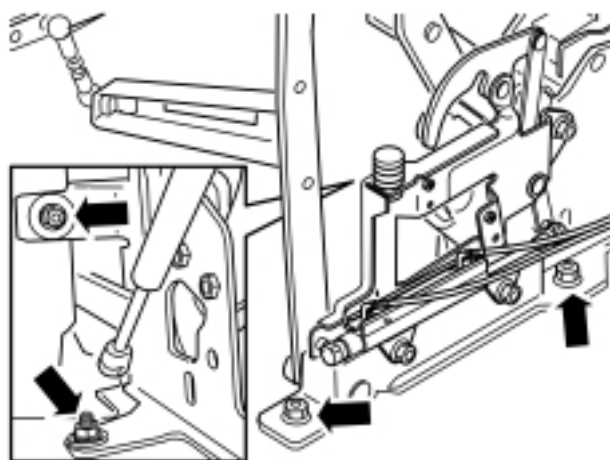
Removal

1

Set the roof in the service position.

Switch off the ignition.

Obs! Mark all positions to facilitate installation.

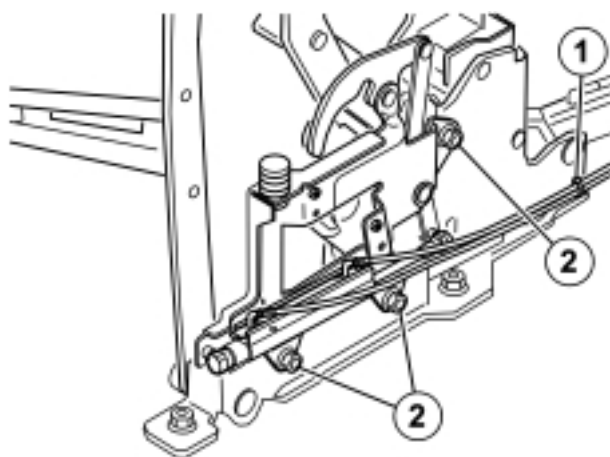


225104

IMG-

Remove:

- the front roof panel as described in sida 30 Front roof panel, replacing
- the center roof panel as described in sida 32 Center roof panel, replacing
- the rear roof panel as described in sida 33 Rear roof panel, replacing
- the front hydraulic cylinder as described in VCC-265241-1, Hydraulic cylinder, front roof panel, replacing
- the cable harness and hydraulic hoses from the link system
- the 4 link system screws as illustrated. Lift at the back for better accessibility.



225105

IMG-

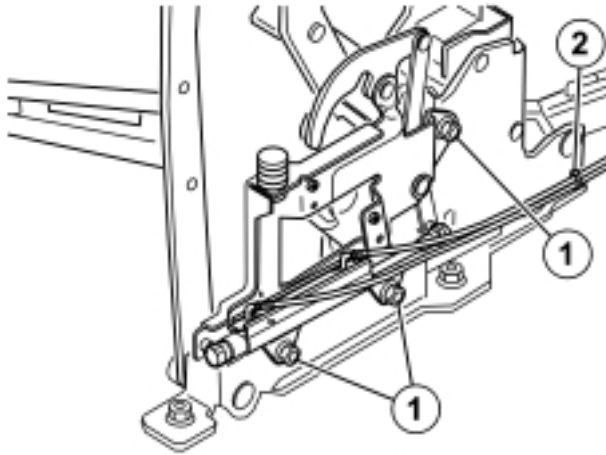
- Cable tie (1)
- the 3 screws (2) of the rear roof panel lock

Detach the main hydraulic cylinder's link system from the link system as described in VCC-265540-1, Main hydraulic cylinder, linkage system, replacing.

Installation

2

Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

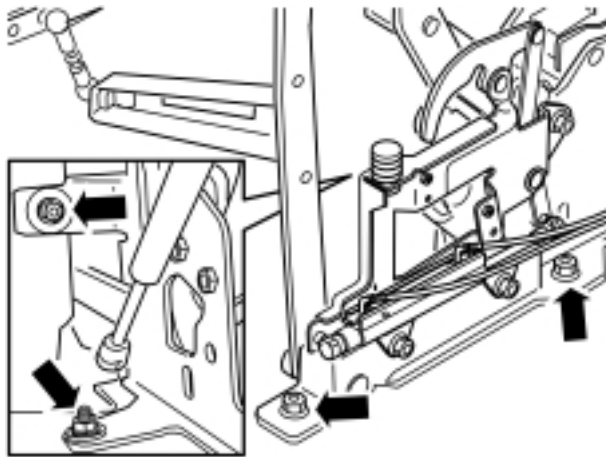


IMG-

225106

Install:

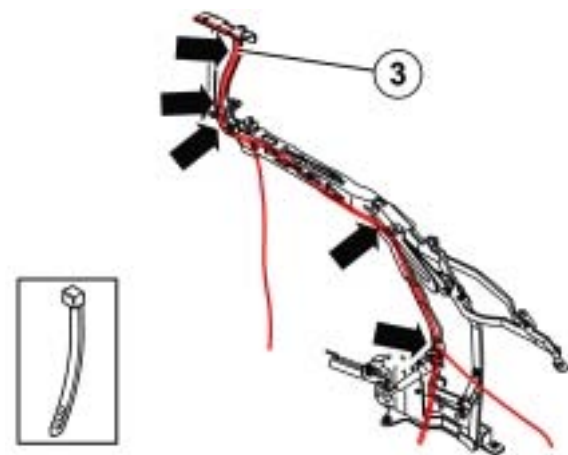
- the main hydraulic cylinder's link system as described in VCC-265540-1, Main hydraulic cylinder, linkage system, replacing
- the 3 M6 screws (1) of the rear roof panel lock
- cable tie (2)



IMG-

225104

- the 4 M8 link system screws as illustrated. Position the link system along the old markings if possible.



IMG-

225042

Secure the cable harness using cable ties where indicated with arrows. Start from the beginning of the protective sheath to just above the plate clip (3).

Install:

- the front hydraulic cylinder as described in VCC-265241-1, Hydraulic cylinder, front roof panel, replacing

- the rear roof panel as described in sida 33Rear roof panel, replacing
- the center roof panel as described in sida 32Center roof panel, replacing
- the front roof panel as described in sida 30Front roof panel, replacing.

Adjust the roof as described in VCC-264611-1, Roof, adjusting.

Roof link system, left, replacing

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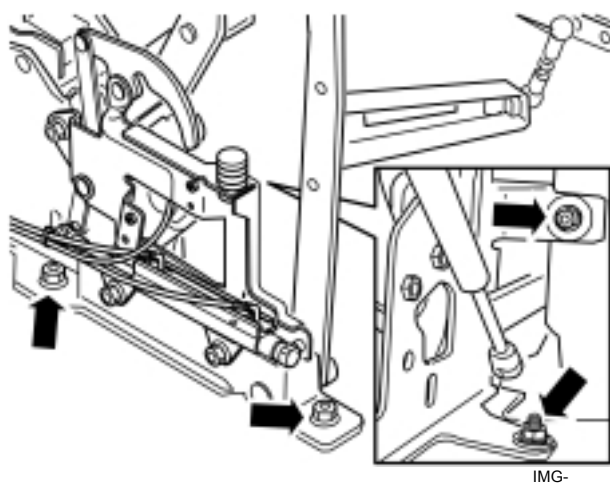
Removal

1

Set the roof in the service position.

Switch off the ignition.

Obs! Mark all positions to facilitate installation.

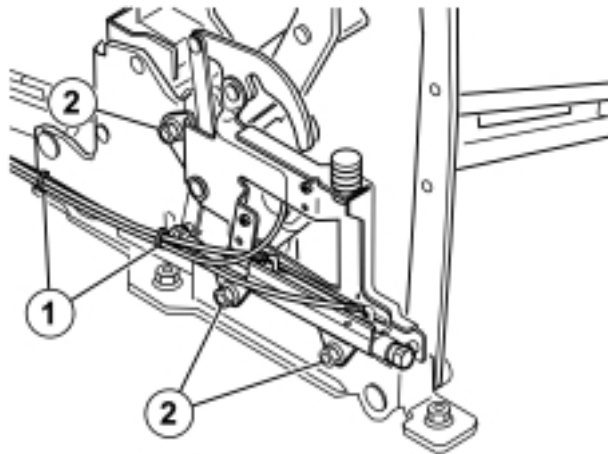


IMG-

225100

Remove:

- the front roof panel as described in sida 30Front roof panel, replacing
- the center roof panel as described in sida 32Center roof panel, replacing
- the rear roof panel as described in sida 33Rear roof panel, replacing
- the front hydraulic cylinder as described in VCC-265241-1, Hydraulic cylinder, front roof panel, replacing
- the angle sensor as described in sida 11Position sensor, convertible roof, replacing
- the cable harness and hydraulic hoses from the link system
- the 4 M8 link system screws as illustrated. Lift at the back for better accessibility.



IMG-

225101

- the cable ties (1)
- the 3 M6 screws (2) of the rear roof panel lock

Detach the main hydraulic cylinder's link system from the link system as described in VCC-265540-1, Main hydraulic cylinder, linkage system, replacing.

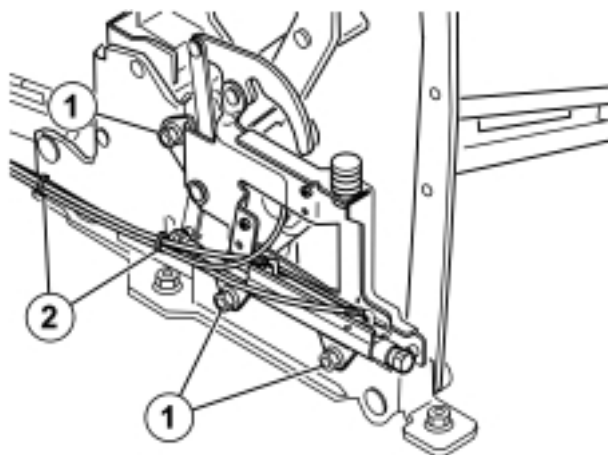
Installation

2

Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

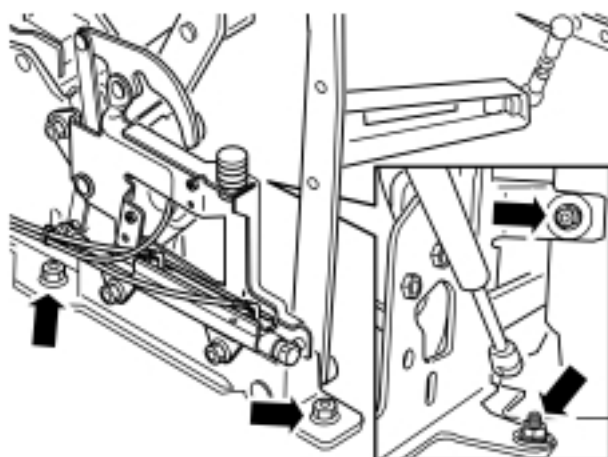
Install:

- the main hydraulic cylinder's link system as described in VCC-265540-1, Main hydraulic cylinder, linkage system, replacing
- the 3 M6 screws (2) of the rear roof panel lock
- the cable ties (2)



IMG-

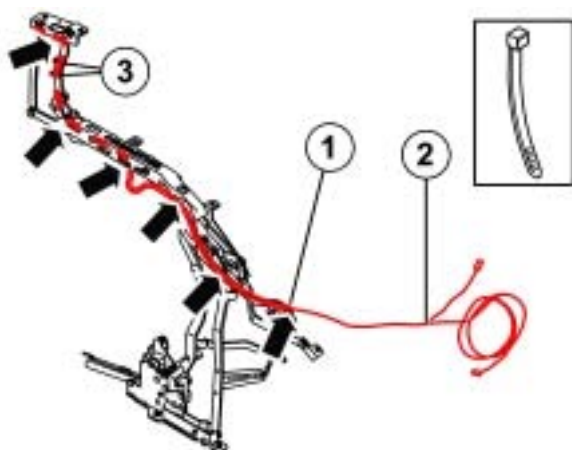
225102



IMG-

225100

- the 4 M8 link system screws as illustrated. Position the link system along the old markings if possible.



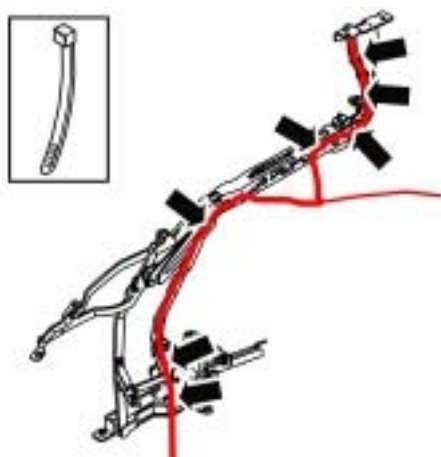
225080

IMG-

Secure the cable harness using cable ties where indicated with arrows starting at (1).

There should be 300 mm (11.8 in.) from the first cable tie to the start of the defroster cable (2).

Secure the cable harness at (3) using tape, part no. 116 1691.



225043

IMG-

3

Install:

- the front hydraulic cylinder as described in VCC-265241-1, Hydraulic cylinder, front roof panel, replacing
- the angle sensor as described in sida 11Position sensor, convertible roof, replacing
- the rear roof panel as described in sida 33Rear roof panel, replacing
- the center roof panel as described in sida 32Center roof panel, replacing
- the front roof panel as described in sida 30Front roof panel, replacing.

Adjust the roof as described in VCC-264611-1, Roof, adjusting.

Front roof panel, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

Removal

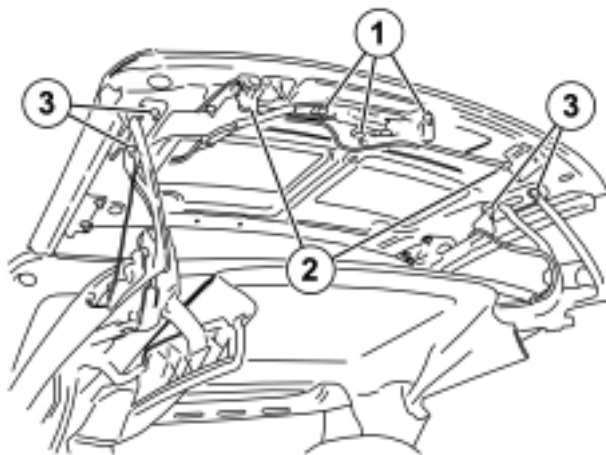
1

Removing the front lock plate

If emergency opening is necessary, see VCC-264422-1, Emergency opening of roof to service position and VCC-265282-1, Emergency closing of roof to service position.

Move the roof forward for easier access.

Remove the headlining as described in sida 13Front headlining, replacing.

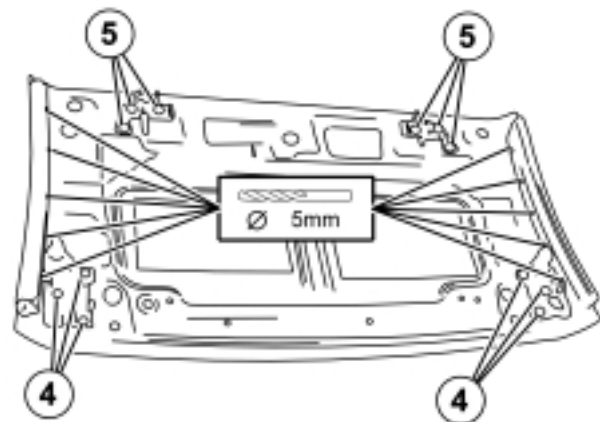


224684

IMG-

Obs! Mark all positions to facilitate installation.

Remove the front roof panel following the steps illustrated.



224702

IMG-

Installation

Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

2

Installing the front roof panel

Install the front roof panel in reverse order.
Adjust the roof as described inVCC-264611-1, Roof, adjusting.
Install the headlining. See: sida 13Front headlining, replacing.

Center roof panel, replacing

Obs! As the illustrations in this service information are used for different model years and / or models, some variation may occur. However, the essential information in the illustrations is always correct.

1

If emergency opening is necessary, see VCC-264422-1, Emergency opening of roof to service position or VCC-265282-1, Emergency closing of roof to service position.

Obs! When replacing roof panels, these shall be replaced one at a time so that the roof's link system does not lose its position.

Removal

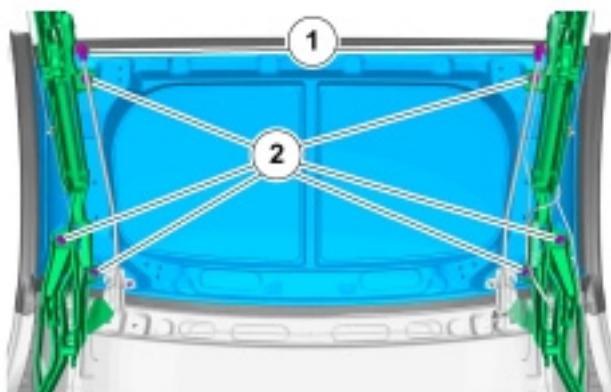
2

Removing middle roof panel

Remove the headlining's hinges acc. to: VCC-265244-1, Hinge, center headlining, replacing

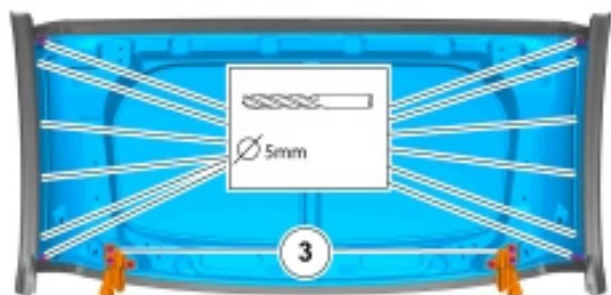
Obs! Mark all positions to facilitate installation of the roof panel.

Remove in the order shown by the figures.



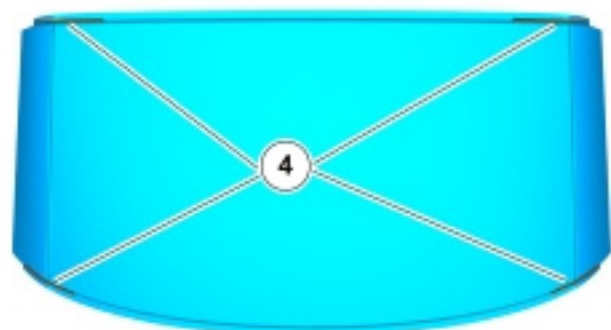
IMG-

235465



IMG-

235507



IMG-

235520

Installation

Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

3

Installing middle roof panel

Seal acc. to figure (4) with butyl tape, part number 116 1782, before the rubber strip is reinstalled on the roof panel. Pull out the tape so that it becomes approx. 4 mm thick.

Install in the reverse order.



235521

IMG-

Obs! Reinstall the headlining after the roof has been adjusted.

Adjust the roof as described in VCC-264611-1, Roof, adjusting.

Install the headlining's hinges acc. to: VCC-265244-1, Hinge, center headlining, replacing.

Rear roof panel, replacing

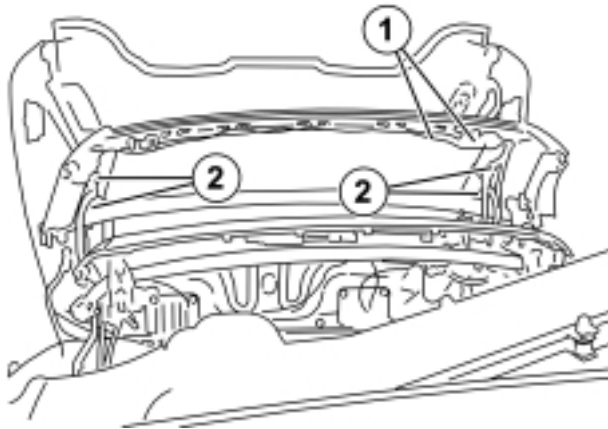
Obs! As the illustrations in this service information are used for different model years and / or models, some variation may occur. However, the essential information in the illustrations is always correct.

Removal

1

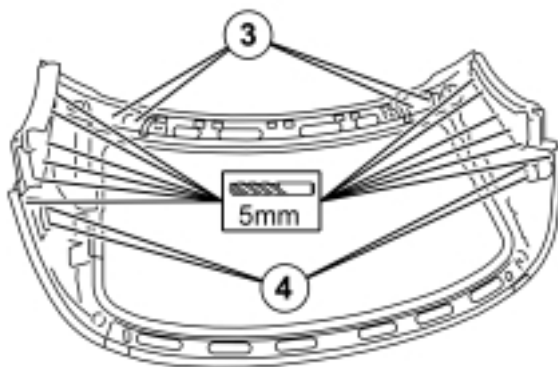
If emergency opening is necessary, see VCC-264422-1, Emergency opening of roof to service position.

Remove the rear window as described in VCC-265001-1, Rear windshield, replacing.



224629

IMG-



224630

IMG-

Obs! Mark all positions to facilitate installation.

Remove the rear roof panel following the steps illustrated.

Installation

Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

2

Install the rear roof panel in reverse order.

Adjust the roof as described in VCC-264611-1, Roof, adjusting.

Install the rear window as described in VCC-265001-1, Rear windshield, replacing.

Roof complete, replacement

Obs! As the illustrations in this service information are used for different model years and / or models, some variation may occur. However, the essential information in the illustrations is always correct.

Preparatory work

1

To replace the roof complete, exposing has to be done with the roof in several different positions.

That's why the order for removal may vary to avoid having to move the roof by hand several times.

Move the roof to the right position acc. to:
VCC-264422-1, Emergency opening of roof to service
position or VCC-265282-1, Emergency closing of roof to
service position.

Viktigt! When the roof is operated with loosened
parts, pay special attention so that parts are damaged.

Removing

2

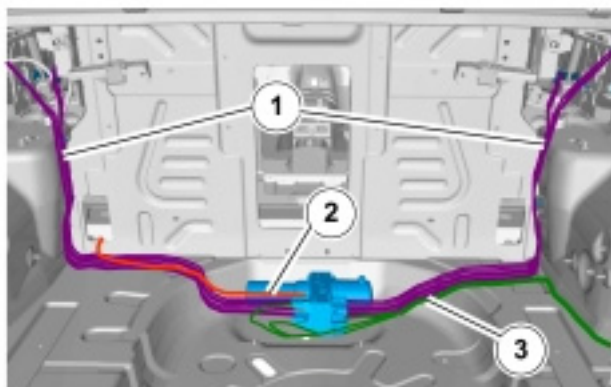
Removing roof, complete

Overview:

- 1 hydraulic hoses
- 2 wires, relief for hydraulic pressure
- 3 cable to hydraulic pump.

Expose the hydraulic pump's hoses acc. to
VCC-264605-1, Hydraulic pump, replacing.

Tips: The panels do not have to be removed completely
from the vehicle.



IMG-

235540

3

Remove the ski hatch as described in VCC-262221-1,
Ski hatch, replacing.

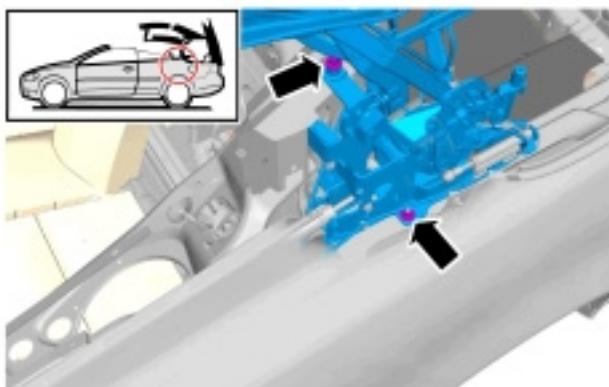
4

Remove the side panels according to: VCC-261406-1,
Rear seat side panel, replacing.

5

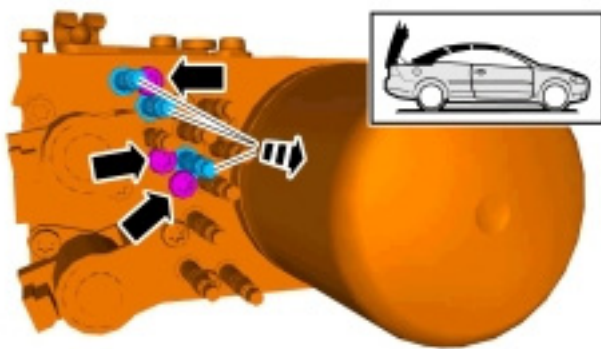
Remove the 2 screws.

Mark out the positions against the body.



IMG-

235543



Close the roof but do not lock into place at the front edge.

Loosen hoses 91, 92 and 93 from the hydraulic pump so that they are completely separated from other hoses, 3 pcs. M6.

Viktigt! Risk of oil spill. Use protective paper.

IMG-

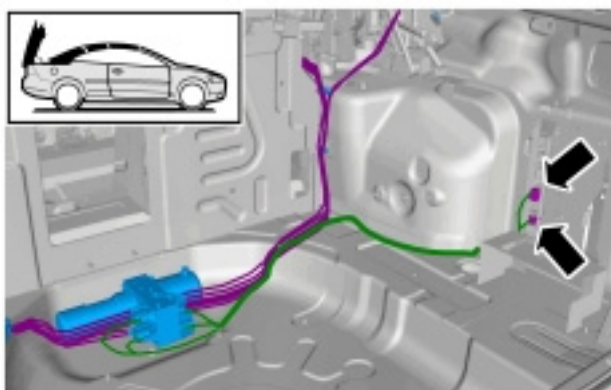
235544

7

Loosen the other hoses from the body.

8

Remove the cables from the control module.



IMG-

235560

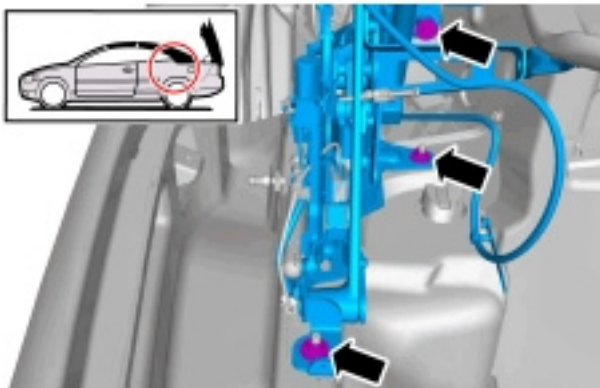
9

Disconnect the cable harness.



IMG-

235561

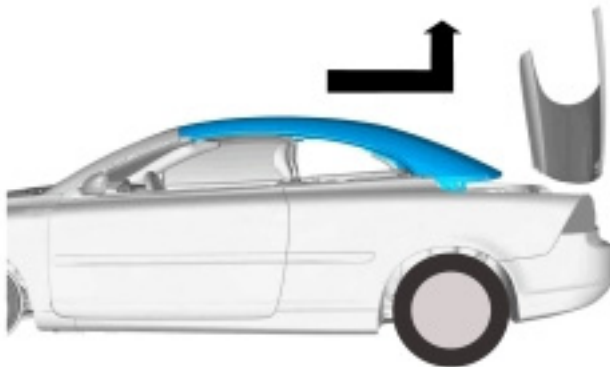


IMG-

235562

Mark the link system's position against the body.
Remove the screws and nuts, 3 pcs. M8.

11



IMG-

235563

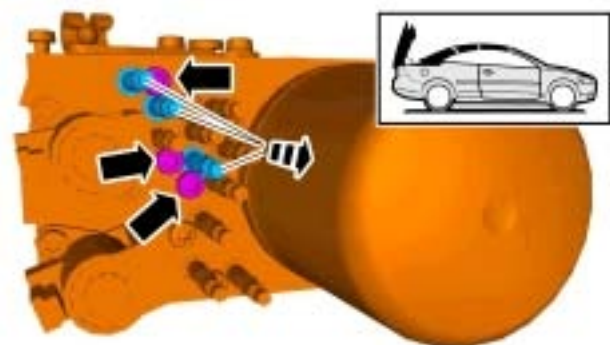
Lift away the roof. Three persons are needed for this work, two that hold the roof parts and a third that checks the cables and lifts the hydraulic pump.

Installing

Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

12

Installing roof, complete



IMG-

235564

Install hydraulic hoses 91, 92 and 93 for the hydraulic pump on the spare part.

To start, place the roof according to the old marking.
Install in the reverse order.

Adjustment

13

Adjust the roof as described in VCC-264611-1, Roof, adjusting.

Front roof panel lock, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

1

Method content

This method consists of:

- sida 37Roof bow lock, replacing
- sida 39Lock at front edge of front roof panel, replacing
- sida 39Lock at rear edge of front roof panel, replacing.

Roof bow lock, replacing

2

Remove the panel from the windshield member as described in VCC-255601-1, Panel, upper windshield member, replacing.

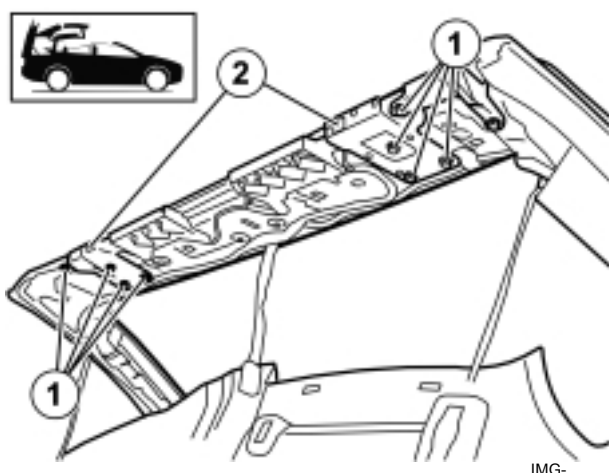
Obs! Mark the location to facilitate installation.

Remove:

- the 4 M6 screws of the lock plate (1)
- the sensors from uninstalled componet (2).

Adjust the roof as described in VCC-264611-1, Roof, adjusting.

Tighten, see: VCC-149646-1, Tightening torque.



225035

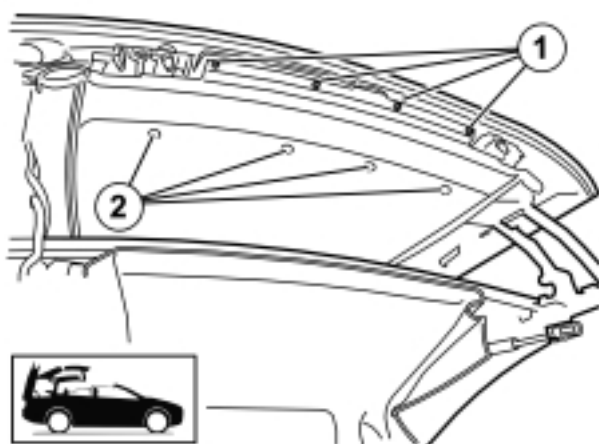
Lock at front edge of front roof panel, replacing

3

Obs! Mark the location to facilitate installation.

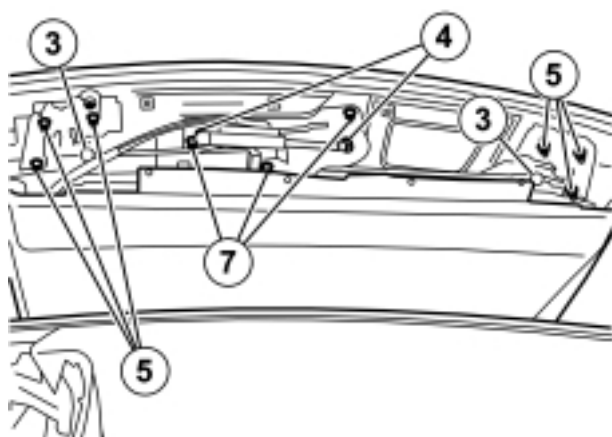
Remove the 4 clips from the front edge of the headlining (1) and the 4 hidden clips at (2).

Bend down the front edge.



IMG-

224820

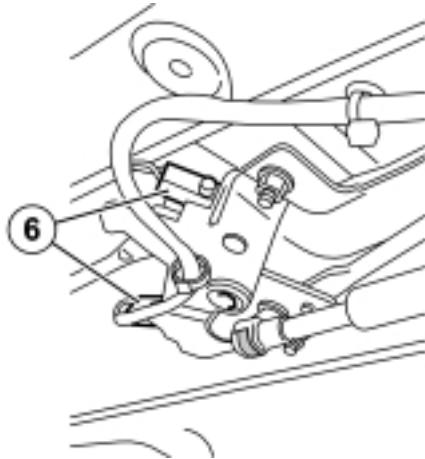


IMG-

225036

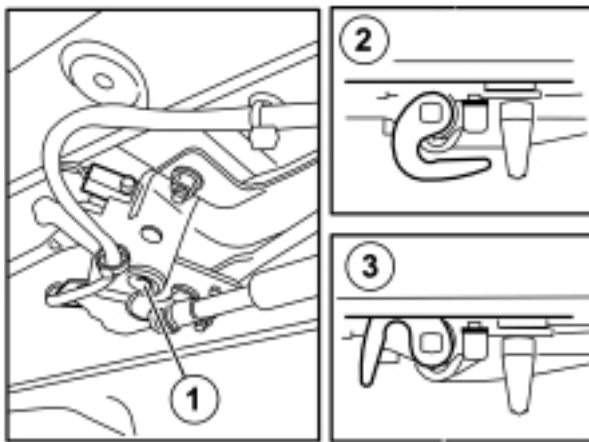
Remove:

- the braces (3)
- the hydraulic cylinder at the attachments (4)
- the nuts (5) of the lock (3 M6 on each side)
- the sensors (6)
- the lock unit, 3 M6 (7).



IMG-

225700



IMG-

225037

Installation

4

Obs! For tightening torques, see VCC-149646-1, Tightening torque

Install in the reverse order.

Check that the lock engages and disengages by turning the screw (1).

(2) depicts the closed position and (3) depicts the open position.

Adjust the roof as described in VCC-264611-1, Roof, adjusting.

Lock at rear edge of front roof panel, replacing

5

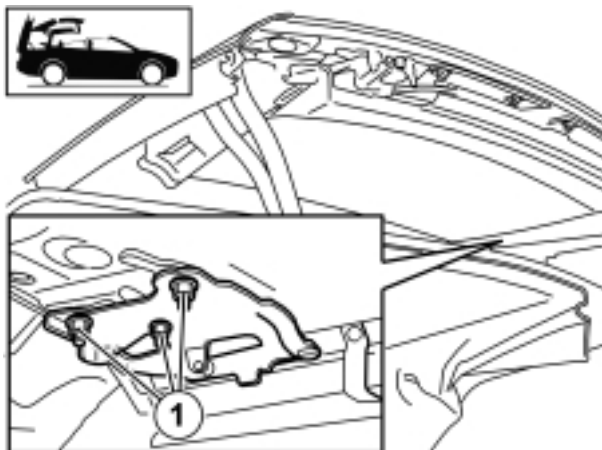
Obs! Mark the location to facilitate installation.

Remove the 3 M6 nuts at (1).

Install in the reverse order.

Tighten, see: VCC-149646-1, Tightening torque.

Adjust the roof as described in VCC-264611-1, Roof, adjusting.



IMG-

225039

Lock, center roof panel, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

1

Method content

- sida 40 Lock, center roof panel, replacing
- sida 41 Center roof lock brace, replacing

Lock, center roof panel, replacing

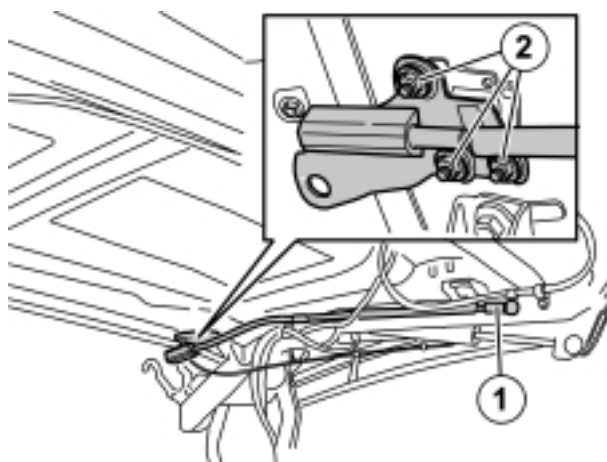
2

Removal

Obs! Mark the location to facilitate installation.

Remove:

- the hinge as described in VCC-265244-1, Hinge, center headlining, replacing
- the lock rod (1)
- the lock plate (2) - 3 M6 screws.



IMG-

224692

3

Installation

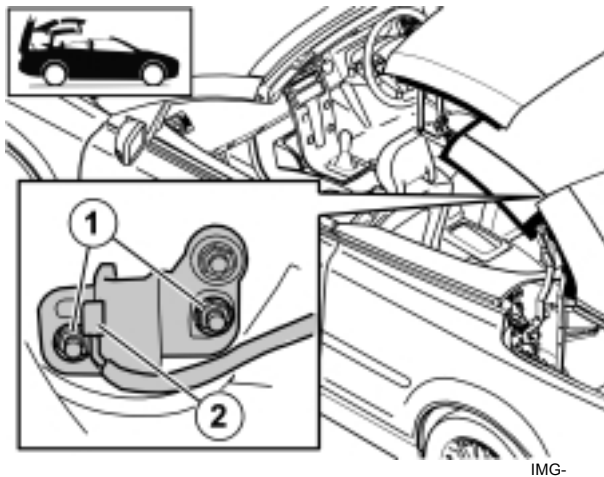
Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

Install in the reverse order.

Adjust the roof as described in VCC-264611-1, Roof, adjusting.

Center roof lock brace, replacing

4



224693

IMG-

Removal

Obs! Mark the location to facilitate installation.

Remove:

- the 2 M6 nuts (1)
- the sensor (2), 1 Torx 20.

5

Installation

Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

Install in the reverse order.

Lock, rear roof panel, replacing

Obs! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

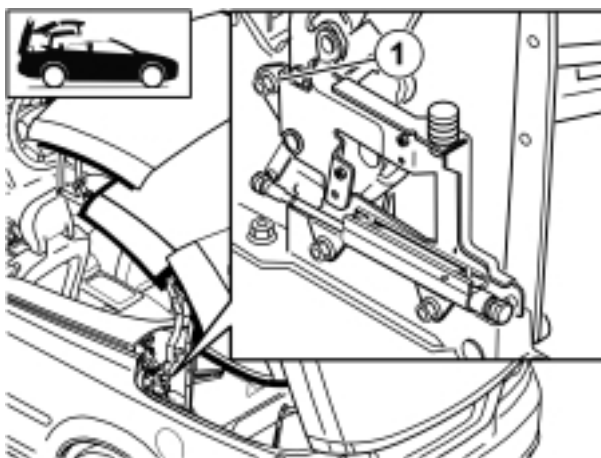
Removal

1

Removing the rear roof panel lock

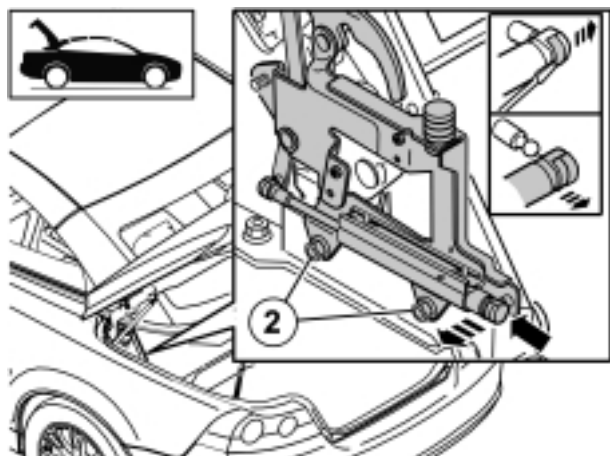
Remove:

- the M6 nut (1)



224700

IMG-



IMG-

224701

Detach the rear edge of the hydraulic cylinder.

Remove:

- the 2 M6 nuts (2).

Installation

2

Installing the rear roof panel lock

Obs! For tightening torques, see: VCC-149646-1, Tightening torque.

Install in the reverse order.