

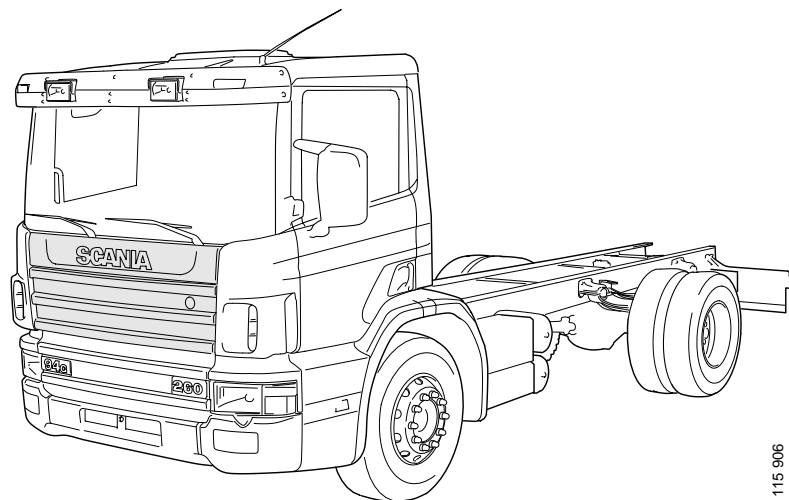
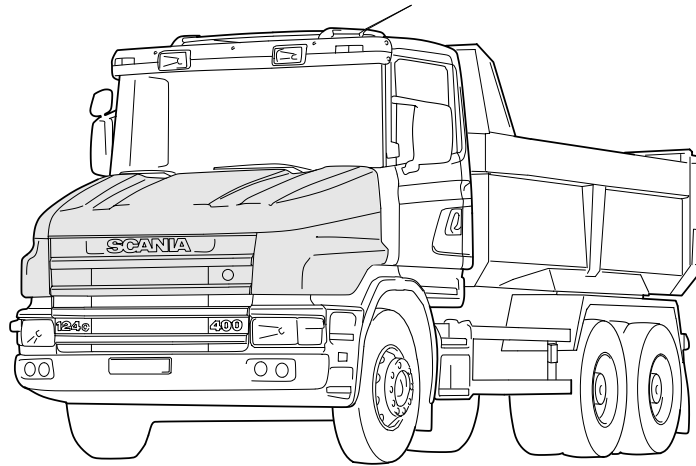
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Issue 1 en

Front grille panels and bonnet

Work Description



115 906

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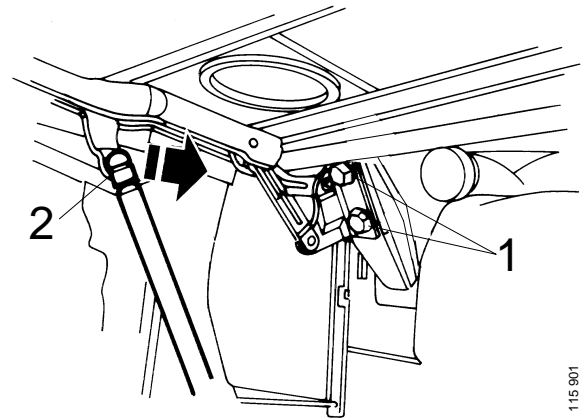
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Front grille panels and cab corner

Upper front grille panel

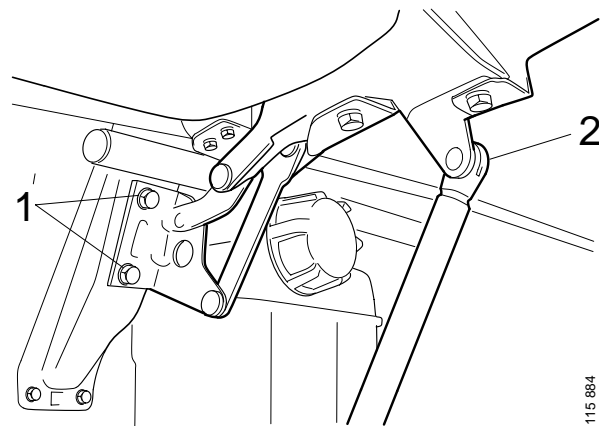
Removal and fitting

- 1 Remove the bolts 1 on the upper front grille panel as shown.
- 2 Remove the gas spring 2.
- 3 Fit the parts in reverse order.



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Earlier design



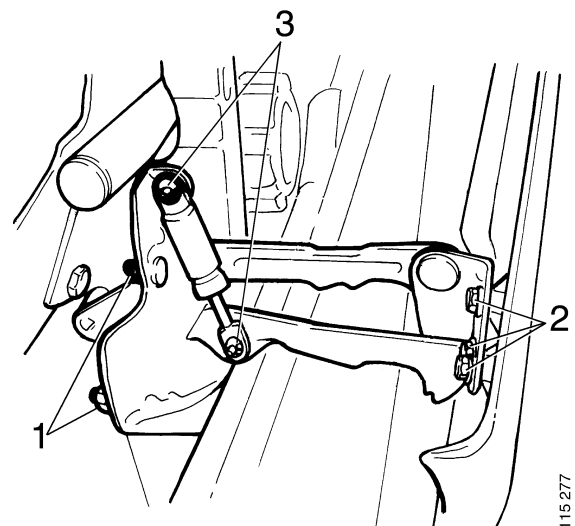
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Newer design

Folding grille panel

Removal and fitting

- Remove the nuts 1 for the panel bracket, to enable removal of the entire panel assembly including the bracket.
- Remove the bolts 2 for the panel, to remove only the panel.
- Remove the gas spring retaining rings 3 to replace the gas spring.

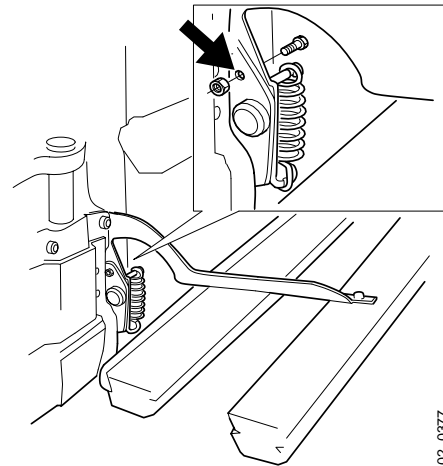


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Lower front grille panel

Removal and fitting

- 1 Open the lower grille panel.
- 2 Remove any remains of aluminium rivets from the holes in the hinges. See illustration.
- 3 Lock the hinges in the lowered position by inserting two M6 bolts in the holes. Secure the bolts using nuts.
- 4 Remove the lower front grille panel including the hinges.
- 5 Fit the parts in reverse order and remove the M6 bolts.

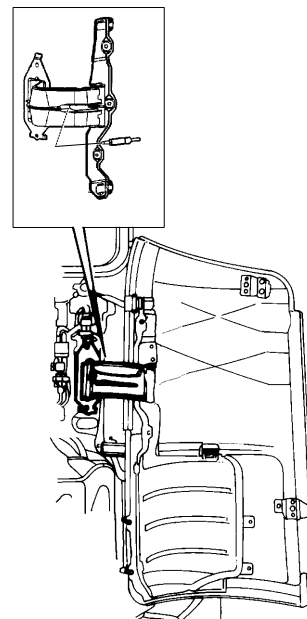


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Cab corner

Removal and fitting

- 1 Remove the bolts and the gas spring and then remove the cab corner.



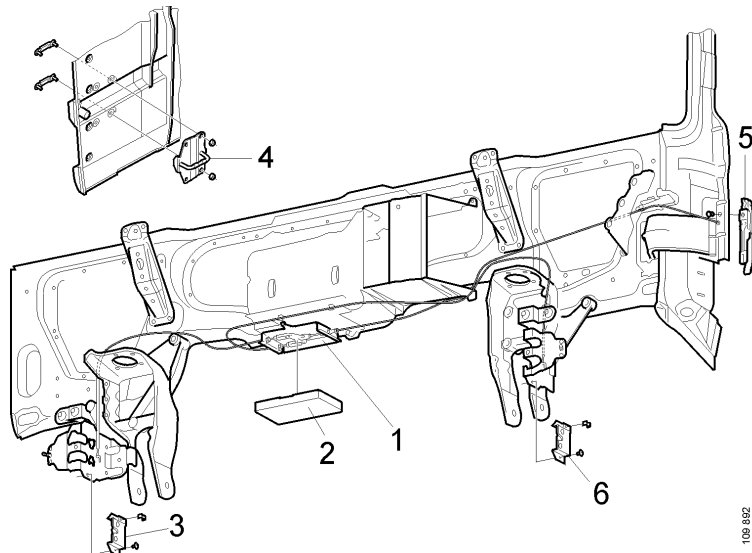
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Locking cables

General

From the handle in the door opening, an opening cable runs to the cable bracket, where it is connected to a cable for each lock.

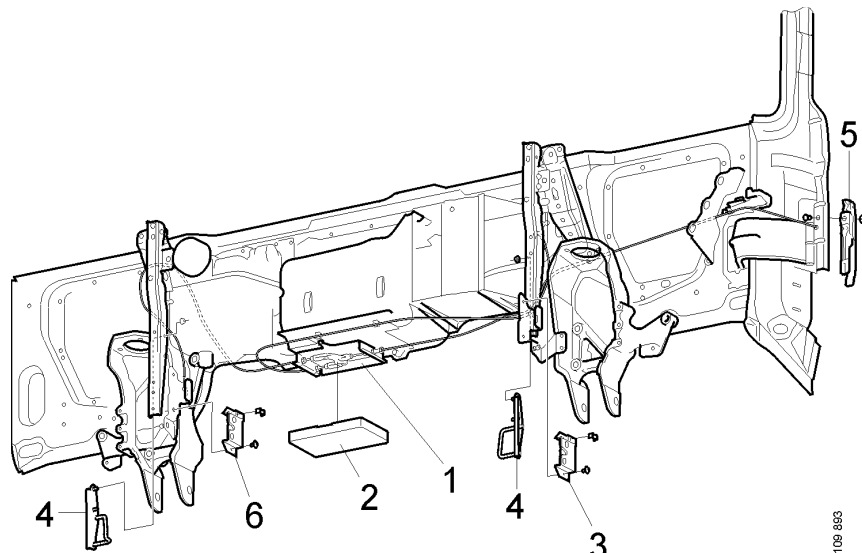
R cab



- 1 Cable bracket
- 2 Cover
- 3 Cover lock

- 4 Latch
- 5 Opening handle
- 6 Cover lock with attachment lugs for the front grille panel switches

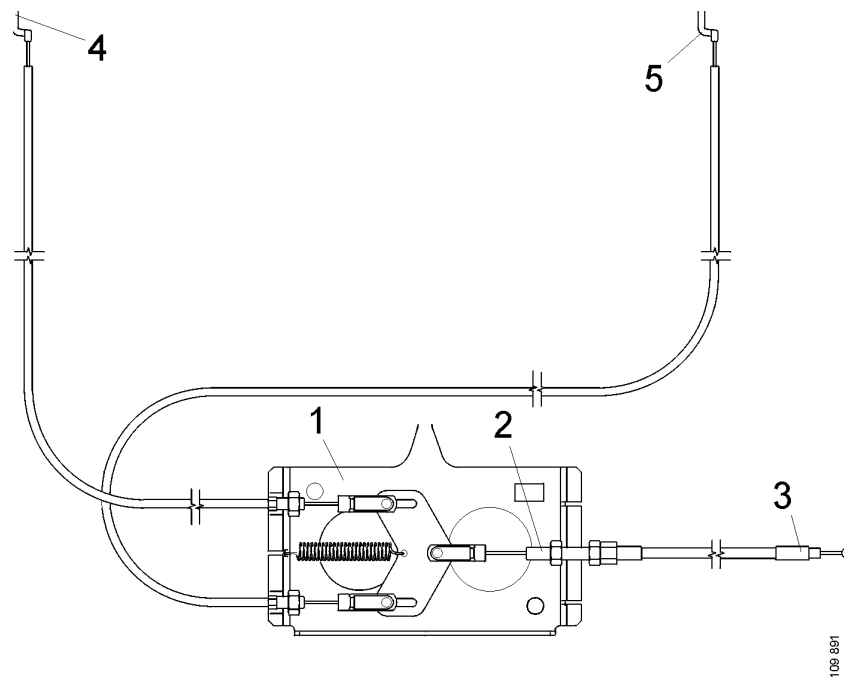
P cab



- 1 Cable bracket
- 2 Cover
- 3 Cover lock

- 4 Latch
- 5 Opening handle
- 6 Cover lock with attachment lugs for the front grille panel switches

Cable bracket



1 Cable bracket

2 Adjusting screw

3 Opening cable

4 Right hand cable

5 Left hand cable

Renewal of cables

- 1 Remove the broken cable. First loosen it at the cable bracket and then at the latch or the handle.
- 2 Attach the new cable to the latch or handle first and then at the cable bracket.
- 3 Lower the handle and close the latches.
- 4 Adjust the adjusting screw so that there is no play in the handle when in the locked position.

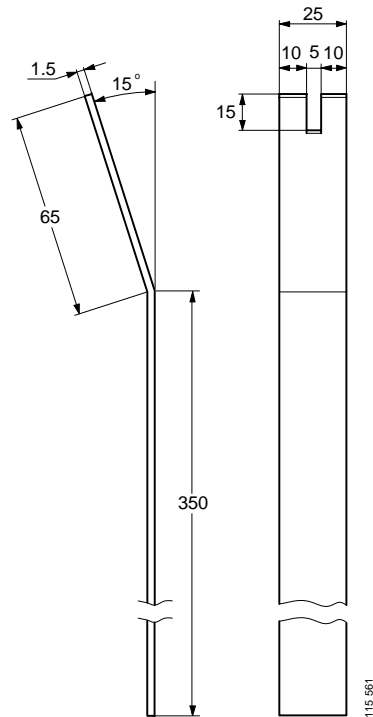
Emergency opening of the upper front grille panel

R cab

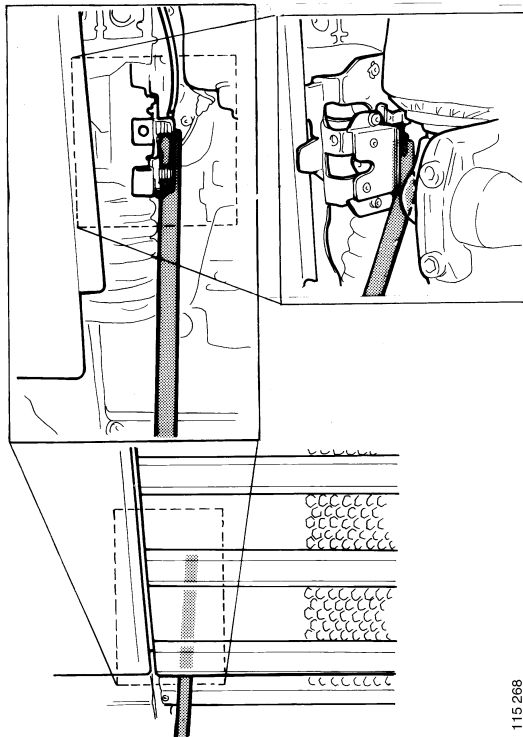
The upper front grille panel can be opened from the front if any of the cables are broken. There are two methods, with or without a tool.

Opening with a tool

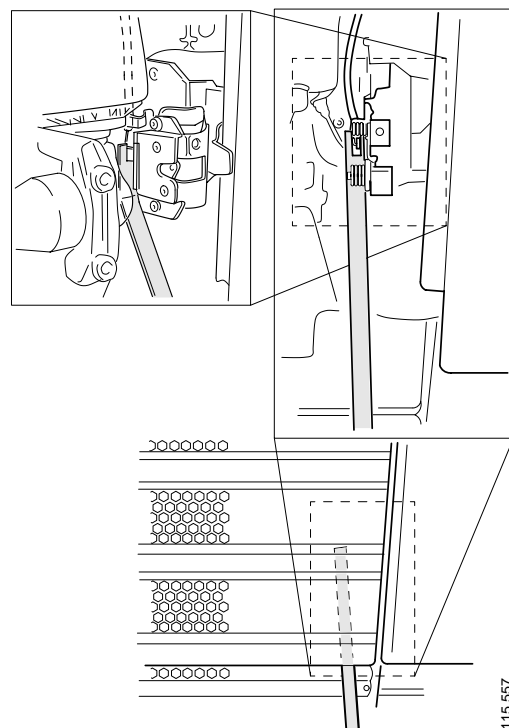
- 1 Make a tool as shown in the picture from a 1 mm thick piece of sheet metal.
- 2 Insert the tool up the inside of the front grille panel and push up the latches on both sides.
- 3 Open the front grille panel.



Tool for opening the grille panel



Right hand side, R cab



Left hand side, R cab

Opening without a tool

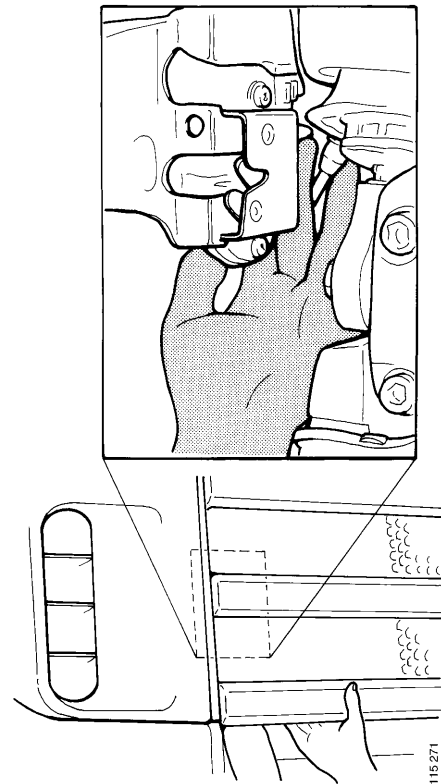
- 1 Fit lifting tool 99 242. Secure the lifting arms using a chain.
- 2 Raise the cab slightly so that it cannot drop if the air bellows are emptied of air.



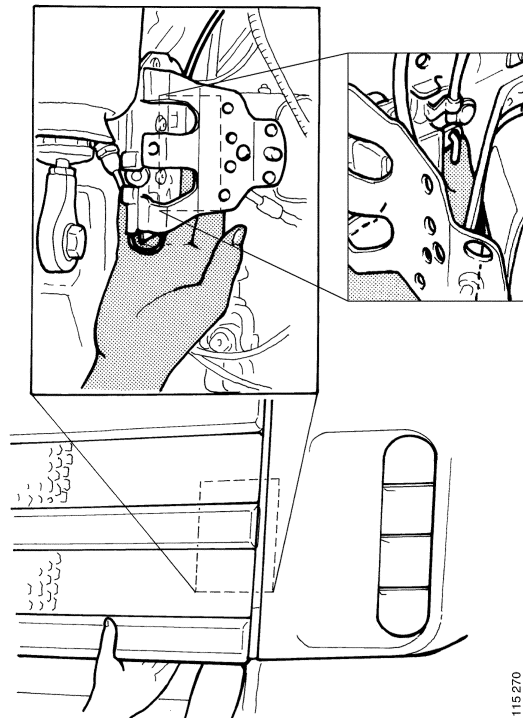
WARNING!

Do not insert your hand inside the front grille panel without first securing the cab with the lifting tool. If the cab suspension bellows are emptied of air, there is a risk of injury caused by crushing.

- 3 Insert your hand inside the front grille panel and push up the latches on both sides.
- 4 Open the front grille panel.
- 5 Lower the cab and remove the lifting tool.



Right hand side, R cab

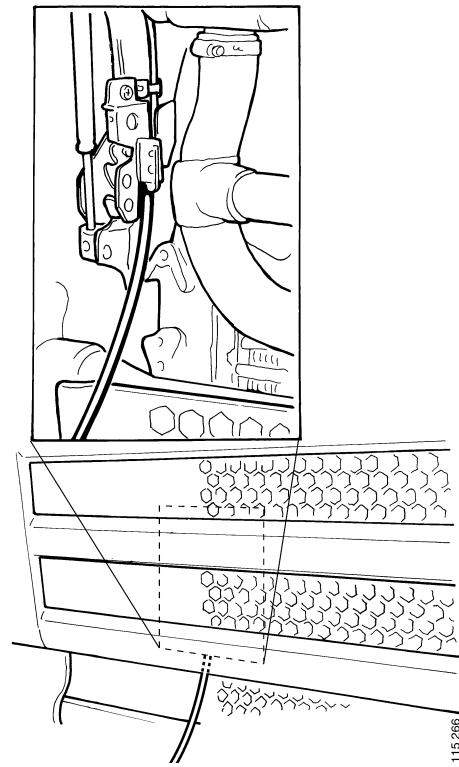


Left hand side, R cab

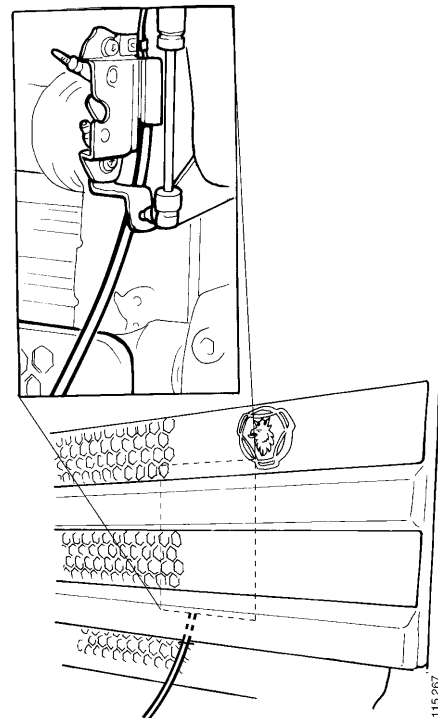
P cab

The upper front grille panel can be opened from the front if any of the cables are broken.

- 1 Cut a length of plastic pipe, approximately 40 cm long.
- 2 Insert the plastic pipe up the inside of the front grille panel and push up the latches on both sides.



Right hand side, P cab



Left hand side, P cab

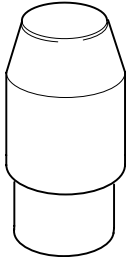
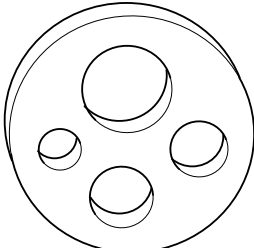
Bonnet

Bonnet springs

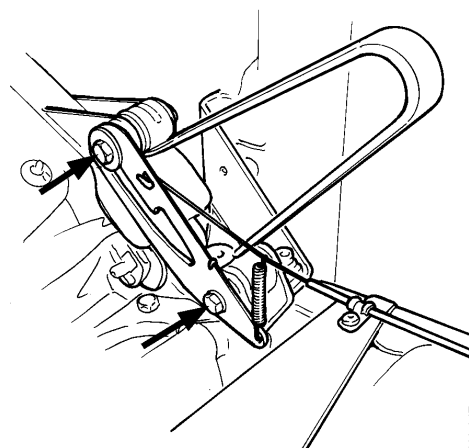
Renewal of the bushes in the bonnet springs

As the bonnet tip-stop is located in the same bracket as the bonnet springs, the bushes must be renewed on one side at a time to prevent damage.

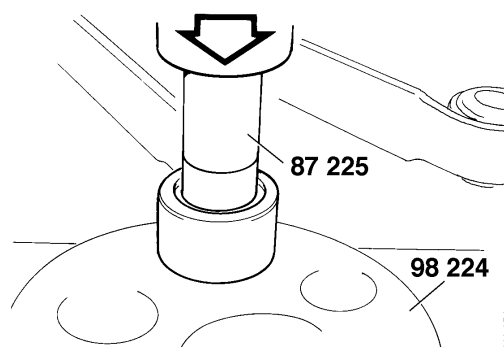
Special tools

Number	Designation	Illustration	Tool board
87 225	Mandrel	87 225 	B1
98 224	Pressplate	98 224 	G1

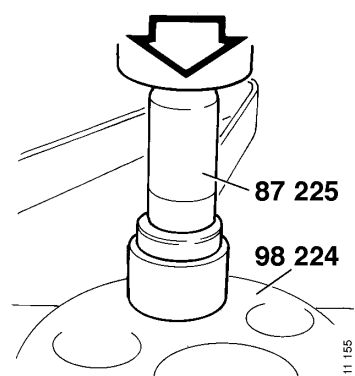
- 1 Remove the bolts holding the bonnet spring and tip-stop in place and remove the spring.



- 2 Press out the bush using mandrel 87 225 and pressplate 98 224.



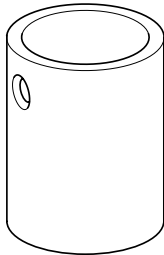
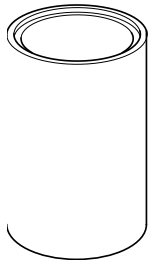
- 3 Lubricate the bushing and press in place using mandrel 87 225 and pressplate 98 224.
- 4 Replace the bonnet spring and the bonnet tip-stop and tighten the two bolts.



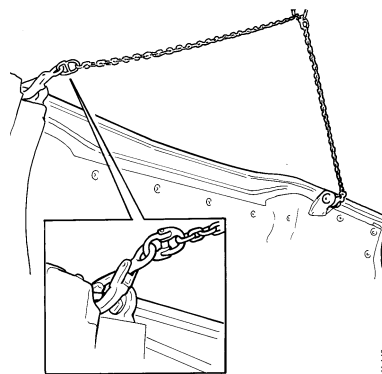
Bonnet, hinge

Renewal of the bushes in the hinge

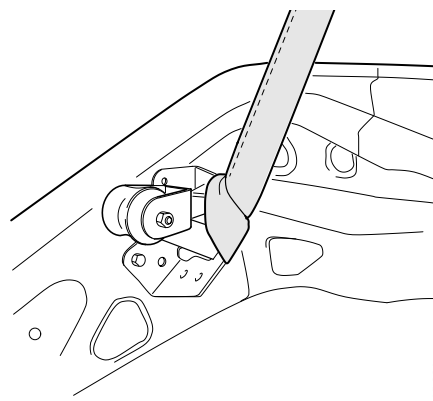
Special tools

Number	Designation	Illustration	Tool board
99 005-1	Pusher adapter	<p>99 005-1</p>  <p>111 023</p>	H1
99 134	Mandrel	<p>99 134</p>  <p>111 006</p>	R2

- 1 **Earlier rear bonnet bracket:** Attach a lifting device to the rear bracket of the bonnet.
- 2 **Newer rear bonnet bracket:** Attach lifting straps to the bonnet brackets as shown in the illustration and attach a lifting device to the straps.

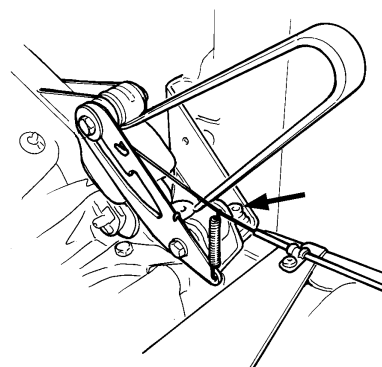


Earlier bonnet bracket

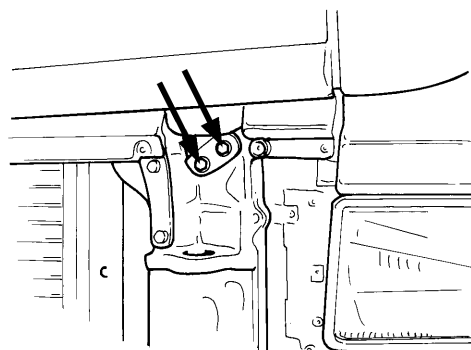


Newer bonnet bracket

- 3 Tighten the lifting device so that the bonnet is suspended when the hinges are loosened.
- 4 Unhook the control cable spring and remove the cable from the tip-stop.
- 5 Remove the bolts for the hinges. Each hinge is attached by three bolts. The bonnet may swing free when the last bolt is removed.
- 6 Lift off the bonnet. The hinges have metal heels, so the bonnet must be manoeuvred forwards for the first centimetre.

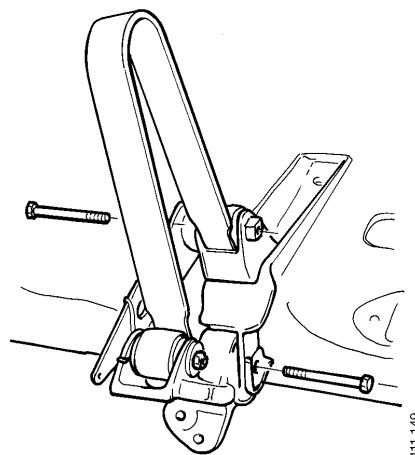


Bolt for the hinge

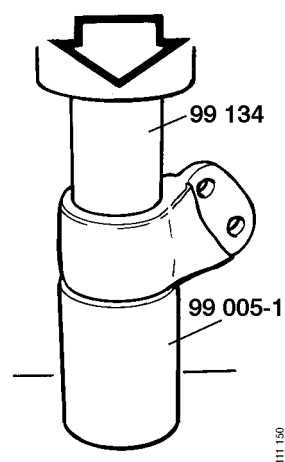


Bolts for the hinge

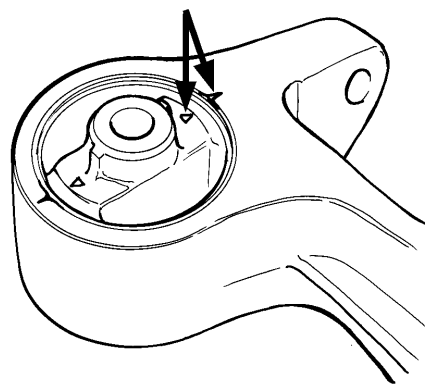
- 7 Remove the two bolts for the hinge and remove it from the bonnet.



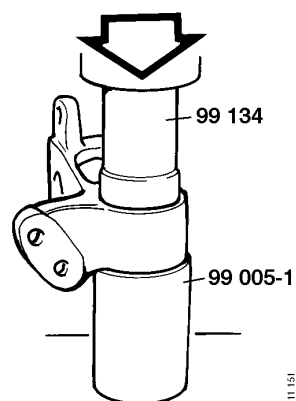
- 8 Press out the hinge bushing using mandrel 99 134 and pusher adapter 99 005-1.



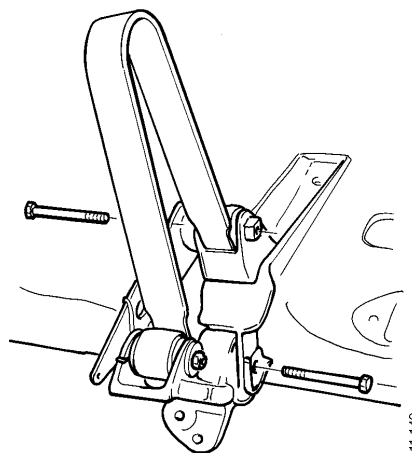
- 9 Turn the new bushing so that the arrows are aligned with those of the hinge.



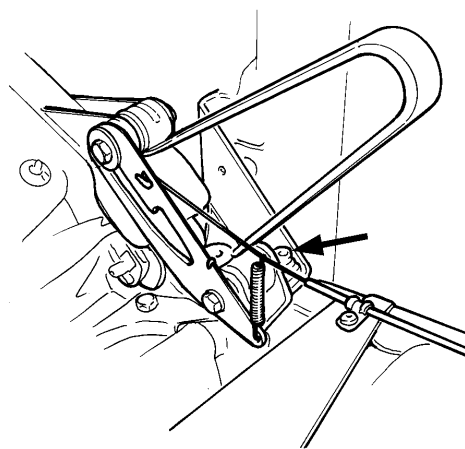
- 10 Press in the bushing using mandrel 99 134 and pusher adapter 99 005-1.



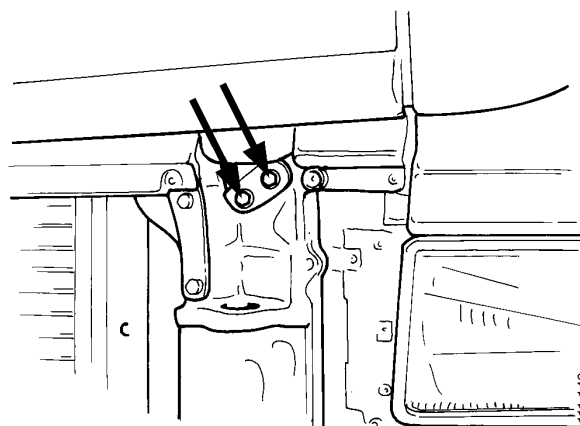
- 11 Fit the hinge to the bonnet and tighten the two bolts.



- 12 Lift the bonnet into place and tighten the three bolts holding the hinges to the frame. Remove the lifting device.
- 13 Fit the control cable to the tip-stop and hook up the spring.
- 14 Close the bonnet and check that the bonnet latch is working correctly.



Bolt for the hinge



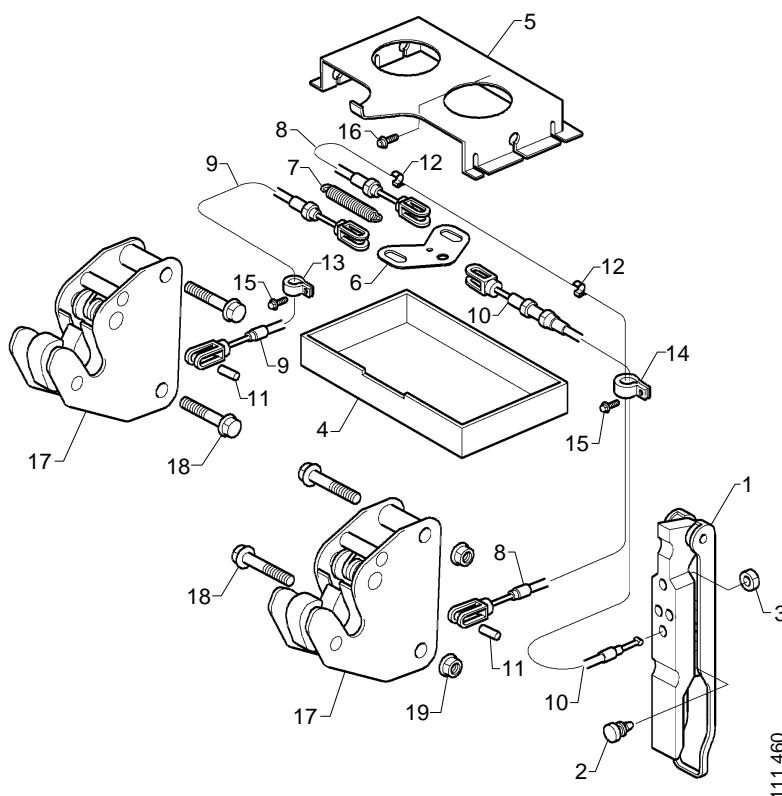
Bolts for the hinge

Locking cables

A cable runs from the handle by the driver's door to a distribution box beneath the heater unit. From there, a cable runs to each bonnet latch, one on each side of the vehicle.

Renewal of cables

- 1 Remove the broken cable. First loosen the cable at the cable bracket and then at the bonnet latch or the handle.
- 2 When fitting the new cable, first attach it to the bonnet latch or handle and then the cable bracket.
- 3 Lower the handle and close the bonnet latch.
- 4 Adjust the adjusting screw so that there is no play in the handle when in the locked position.



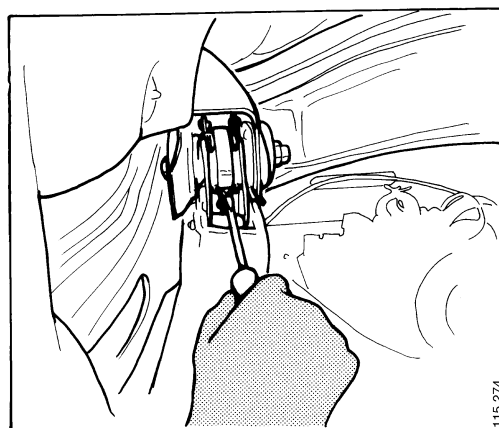
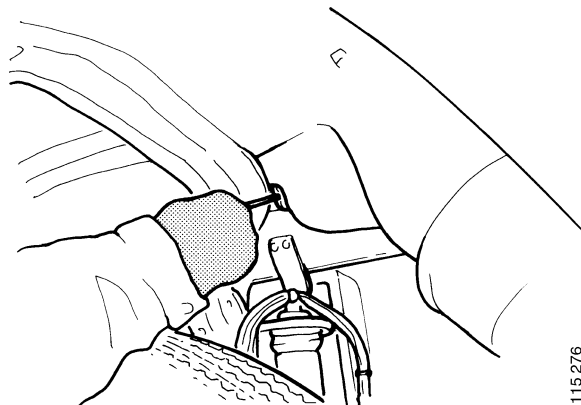
- | | | | |
|----|----------------|----|--------------|
| 1 | Opening handle | 11 | Clevis pin |
| 2 | Rubber stop | 12 | Clamp |
| 3 | Nut | 13 | Clamp |
| 4 | Cover | 14 | Clamp |
| 5 | Bracket | 15 | Bolt |
| 6 | Yoke | 16 | Bolt |
| 7 | Spring | 17 | Bonnet latch |
| 8 | Cable | 18 | Bolt |
| 9 | Cable | 19 | Nut |
| 10 | Cable | | |

Emergency opening of the bonnet

The bonnet can be opened from underneath if any of the cables are broken.

Opening the bonnet

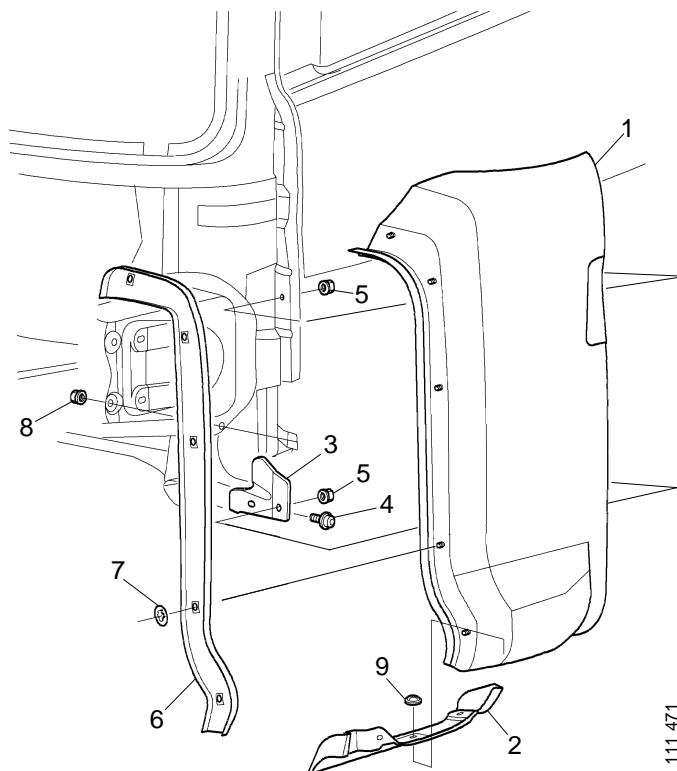
- 1 Open the cover's two catches and push in the catch below the cover to remove the cover.
- 2 Push up the latch on the bonnet latch assembly using a screwdriver and open the bonnet.



Cab corner

General

Between the cab and bonnet sides is a cab corner with a sealing strip, which seals against the bonnet



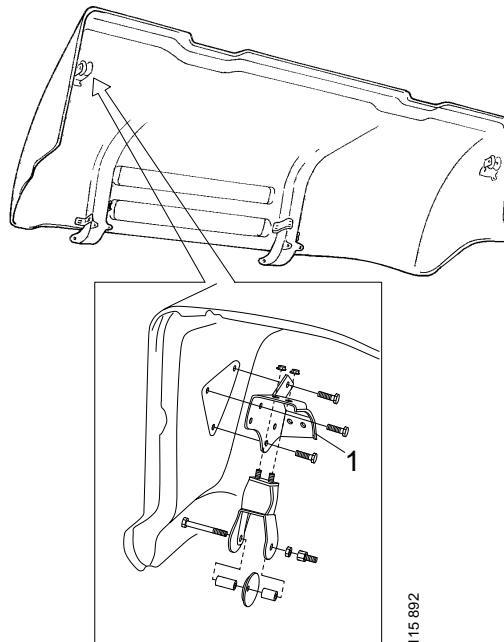
- | | | | |
|---|--------------|---|--------|
| 1 | Corner plate | 6 | Strip |
| 2 | Noise shield | 7 | Washer |
| 3 | Bracket | 8 | Nut |
| 4 | Bolt | 9 | Clamp |
| 5 | Nut | | |

Modification of the bonnet

Renewing the rear bonnet bracket

To improve vibration absorption during driving, a new rear bonnet bracket using vulcanised rubber has been developed. Replacing the earlier bracket with the new design can reduce vibrations.

- 1 Remove the old bonnet brackets from the bonnet.
- 2 Position the new bonnet brackets and mark their outline on the insulation.
- 3 Cut out the insulation along the marking. Apply sealing agent 1 421 125 to the edge of the insulation to prevent water ingress.
- 4 Fit the new bonnet brackets.



Reinforcing the bonnet

The bonnet legs can be reinforced to reduce the risk of cracks in the bonnet.

- 1 Place the reinforcement plates on the bonnet legs as shown in the picture.
- 2 Weld the plates to the bonnet by puddle welding in the plate slots.

