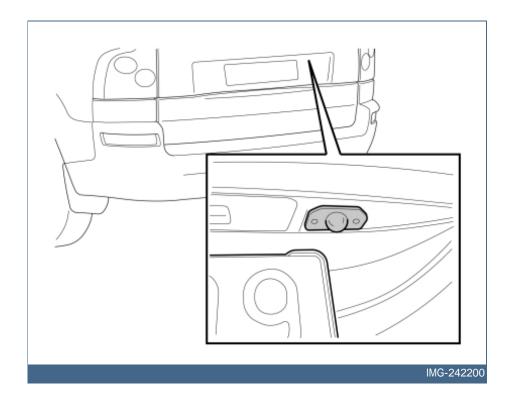
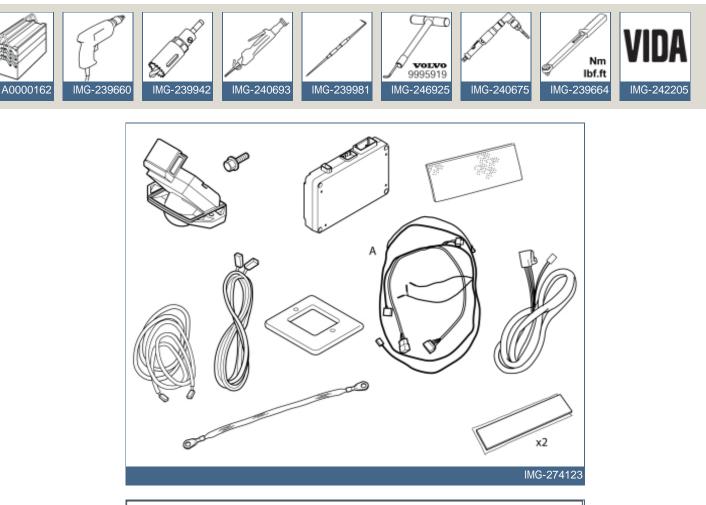
| VC00 | Section | Group | Weight(Kg/Pounds) | Year | Month |
|------|---------|-------|-------------------|------|-------|
| XC90 | 3 | 366 | 1 (2.1) | 2007 | 05 |

XC90 2003, XC90 2004, XC90 2005, XC90 2006, XC90 2007, XC90 2008, XC90 2008, XC90 2009, XC90 2009, XC90 2010





Required tools



| Publ.no: | Issue: | Kit no: | |
|---------------------------------|--------|---------|--|
| Comments: | | | |
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INTRODUCTION

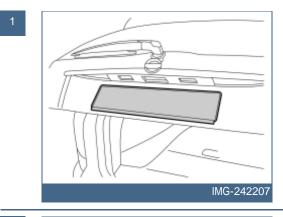
- NOTE! Read through the entire text before carrying out any work.
- The front page gives the date of this edition and the edition it replaces
- The second page shows the tools needed for the installation and the contents of the installation kit
- The illustrations display the procedure in order of operation. The order of operation is repeated in the text section
- Cut out the text page in order to follow the illustrations and text at the same time.

Park Assist, camera

Note!

For cars with an accessory electronic module (AEM), the existing cable harness between the accessory electronic module (AEM) and the rear electronic module (REM) must be replaced (steps 51-66). The new cable harness is marked (A) in the kit image.

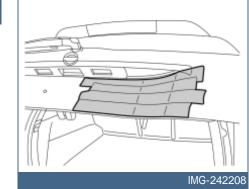




Installing the camera

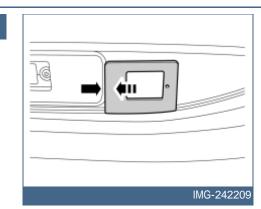
• Remove the number plate and holder.

2



Installing the camera

• Apply tape to the boot lid to protect the finish.



Installing the camera

• Position the template as illustrated.

Installing the camera

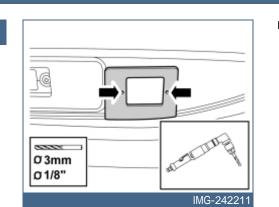
IMG-242210

• Make a mark according to the template's inner rectangle.

6

σ 4,5mm σ 11/64"

6



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IMG-242212

IMG-242213

IMG-242214

Installing the camera

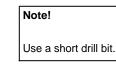
• Use a short drill bit and drill holes according to the template.

Note!

Do not drill through the template.

Installing the camera

• Drill three overlapping holes as illustrated.



Installing the camera

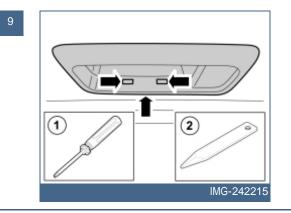
- Cut out along the inside of the marking. The marking should still be visible.
- Clean up the saw cuttings using a vacuum.

Installing the camera

• Open the boot lid fully.

· (1)





Installing the camera

• Remove the border around the handle by pressing in the two catches with a screwdriver (1) and at the same time pry up the outer edge using a weatherstrip tool (2).

Installing the camera

- Remove the lamp.
- Unplug the connector.

11



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IMG-242216

IMG-242219

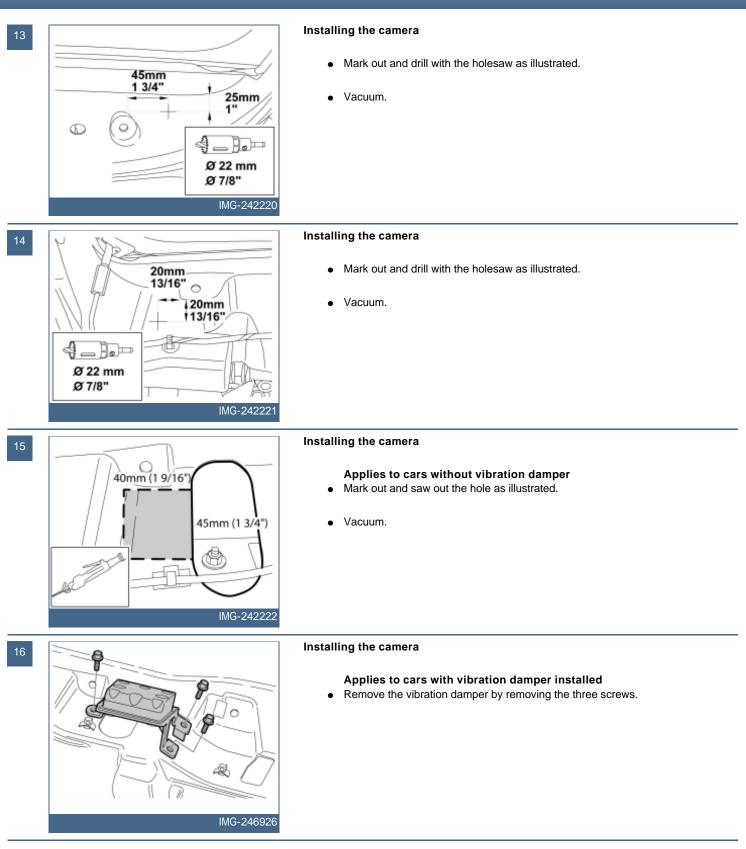
Installing the camera

- Remove the screws.
- Pull the panel downwards until all the clips release.

Installing the camera

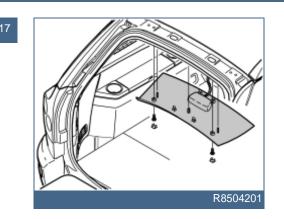
• Remove the centre panel and the right-hand side panel.





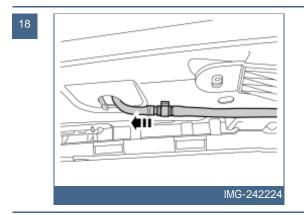
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Installing the camera

- Remove the rear roof panel covers and the screws beneath them.
- Carefully pry off the panel at the rear edge. Use a plastic weatherstrip tool.
- Pull the rear edge of the panel downwards until the four clips on the top release.
- If the car is equipped with lighting in the panel, unplug the connector from the panel.
- Pull the panel backwards to release it.



Installing the camera

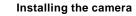
• Disconnect the washer hose.

1MG-242225

IMG-242226

Installing the camera

• Loosen the rubber pass-through and pull out the washer hose.



• Take the tail that is foam-covered about 100 mm on the cable to camera lens and thread through the hole.





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IMG-242228

IMG-242230

Installing the camera

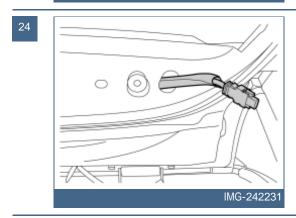
• Insert the cable through the rubber grommet. The end of the grommet that has a lip should sit in the body and the part without a lip should sit in the cargo compartment. The rubber grommet should sit on the part of the cable that is not foam-covered.

Installing the camera

• Thread a wire or cable through the drilled hole down to the washer hose.

Installing the camera

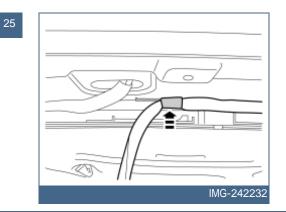
• Tape the cable to the camera on the wire or cable that has been threaded through the hole.



Installing the camera

• Route the cable out through the hole.





Installing the camera

• Press the cable clip in the hole. If the hole is being used, secure it by the existing cable with a cable tie.

Installing the camera

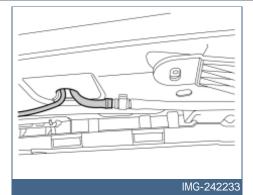
• Refit the rubber pass-through and adjust the length of the cable from the clip to the rubber pass-through.

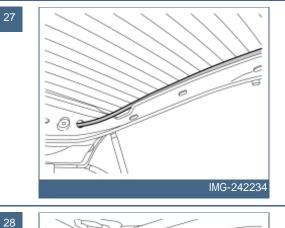
Installing the camera

• Route the cable between the rear window and lid as illustrated.

Installing the camera

• Thread the cable through the hole.





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IMG-242235

30





Installing the camera

• Place the template over the hole for the camera lens (inside the lid).

Note!

Position it the same way/direction as when marking the hole in section 4.

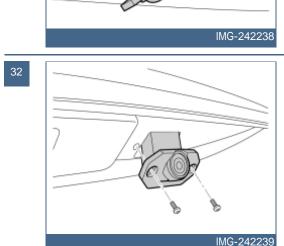
Installing the camera

• Route the cable through the template and hole.

Installing the camera

IMG-242237

• Fit the cable connector on the camera lens.



Installing the camera

- Screw the right-hand screw fully in the camera.
- Align the template so that the right-hand hole in the template is directly above the right-hand hole in the lid.

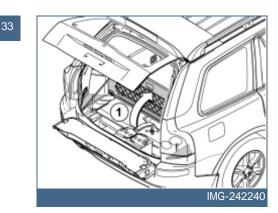
Hold the template in position (inside the hole in the lid) and, at the same time, tighten the camera's right-hand screw so it holds.

• Align the left-hand holes with each other, fit the screw and tighten the camera.

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Cargo compartment, preparations

Applies to cars with two rows of seats

- Fold up the floor hatch (1). If the floor hatch is equipped with a grocery bag holder, the holder is secured with a strap on both ends of the storage compartment. Detach the straps.
- Remove the storage compartment under the floor hatch.
- Remove the floor hatch by folding it almost completely closed and pulling it backwards from the mountings until it releases.

Applies to cars with three rows of seats and integrated carrier bag holder on the underside of the floor hatch

- Fold up the floor hatch (1).
- Detach the two straps on the panel under this. Lift up the rear edge of the panel, fold the floor hatch back towards the panel and lift out the floor hatch with the panel.

Applies to cars with three rows of seats without an integrated carrier bag holder

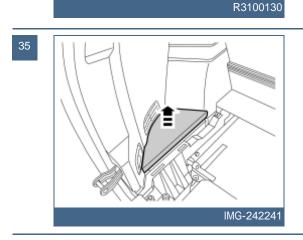
• Fold up the floor hatch (1) at the rear edge and lift it out.

Cargo compartment, preparations

- Slide the driver's seat fully forwards and then fully upwards from the rear edge.
 - Turn the ignition key to position 0.
- Remove the three screws in the battery holder. Lift the battery holder out.
- Remove the battery cover.
- Disconnect the battery negative lead.

Cargo compartment, preparations

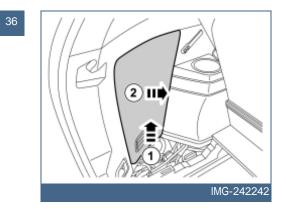
• Remove the hatch on the left-hand side of the cargo compartment.



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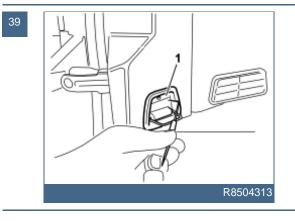




Cargo compartment, preparations

• Remove the panel.

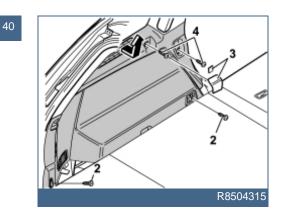
- R3903738
- Pull off the rubber strip on the rear edge of the door opening for the left-hand rear door opposite the left C-post panel.
- Carefully pry off the left-hand C-post panel sides at the top. Use a plastic weatherstrip tool. Then pull until the three clips on the inside release. Do not damage the headlining or the panel.
- If a headphone socket is mounted, disconnect the connector to such.
- Remove the panel by pulling upwards slightly and unhooking it from the side panel.
- R8504123
- Carefully loosen the D-post panel. Start from the top and continue downwards until the three clips on the inside have released.
- Disconnect the connector on the D-post panel (if the car has a loudspeaker in the D-post, the connector is on the loudspeaker).
- Remove the panel by pulling upwards slightly and unhooking it from the side panel.



- Fold out the load securing eyelet.
- Take a scriber or special tool part no.9995919 and insert the angled tip in the hole in the top edge of the cover.
- Twist the scriber so it grips the rear of the cover (1) and pull it loose. This should be carried out on both the front and rear load securing eyelets.

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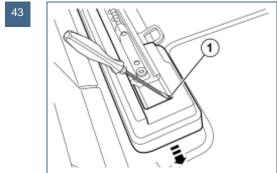
Applies to cars with two rows of seats

Remove the screws (2) on the load securing eyelets.

- Remove the cover (3), by prying off using a weatherstrip tool or a small screw driver.
- Remove the screws (4).
- Remove the panel by pulling out the upper edge slightly so that the clips on the inside release. Pull the panel straight up.
- Fold up the left-hand seat in the third row of seats.
- Remove the screws (2) on the load securing eyelets.
- Remove the cover (3), by prying off using a weatherstrip tool or a small screw driver.
- Remove the screws (4).
- Remove the clip (5) in the bottom of the storage compartment.
- Remove the panel by pulling out the upper edge slightly so that the clips on the inside release. Pull the panel straight up.
- Route the cable as illustrated, down to the floor.

Preparations, passenger compartment

• Insert a screwdriver through the hole (1) on the seat link and press in the catch. Move the link backwards by prizing with a screwdriver between the seat runner and the link.



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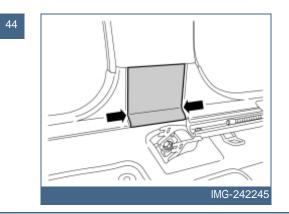
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Preparations, passenger compartment

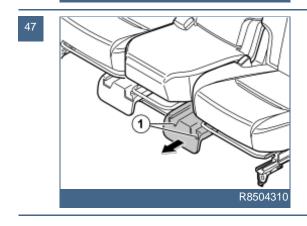
• Carefully prise loose and remove the panel over the joint between the door sills.

Preparations, passenger compartment

• Pull loose the sill molding on the front edge then straight up. Angle out the sill molding from the B-post panel.

Preparations, passenger compartment

- Press the catch (1) in and remove the front seat link.
- Remove the screw.

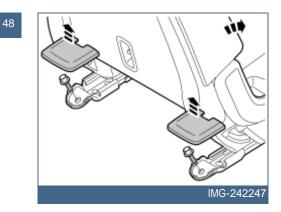


Preparations, passenger compartment

- Press in the catches (1) and remove the seat link as illustrated.
- Remove the screw.

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Preparations, passenger compartment

- Fold down the backrest.
- Remove the seat links and bolts.
- Lift out the seat.

Caution!

Exercise care when doing this so that the trim or door panels are not damaged.



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IMG-242248

Preparations, passenger compartment

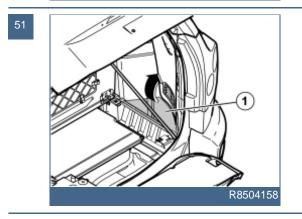
• Loosen the upper part of the sill moulding on the rear edge and loosen the seat belt from the end fitting. The belt is loosened by carefully pressing with a weatherstrip tool on the lock lug so that the seat belt releases from the end fitting.

Preparations, passenger compartment

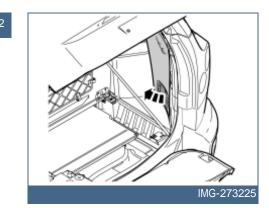
- Pull the sill molding upwards until the three clips release.
- Angle the sill moulding out from the B-post panel.

Steps 51-66 apply to cars with an accessory electronic module (AEM) installed Removal, cable harness

• Remove the right-hand side floor hatch (1) in the cargo compartment.







Steps 51-66 apply to cars with an accessory electronic module (AEM) installed

• Remove the lower folding side panel on the right-hand side.

53A

53B



Steps 51-66 apply to cars with an accessory electronic module (AEM) installed

Illustration A

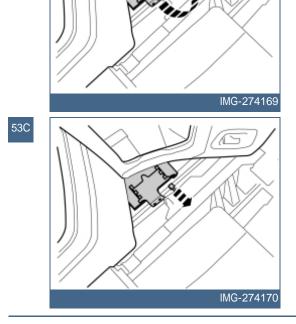
• Remove the two screws in the bracket for the accessory electronic module (AEM).

Illustration B

• Tilt the module so that the 4-pin black connector can be disconnected.

Illustration C

• Unplug the connector.



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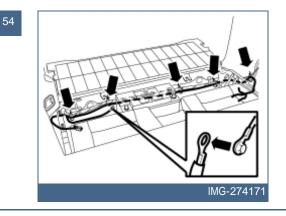
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Steps 51-66 apply to cars with an accessory electronic module (AEM) installed

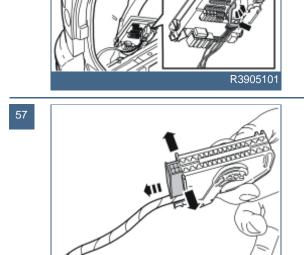
- Remove the cable ties from around the cable harness to the accessory electronic module (AEM) along the rear member.
- Disconnect the ground lead.

Steps 51-66 apply to cars with an accessory electronic module (AEM) installed

• Remove the Rear Electronic Module (REM) by opening the lock (1) on the top of the unit. Tip the unit forward and lift it out of the mountings (2).

Steps 51-66 apply to cars with an accessory electronic module (AEM) installed

• Press in the catch on the rear brown connector in the fuse holder in the cargo compartment, turn the lock arm up as far as it will go and pull out the connector.



Steps 51-66 apply to cars with an accessory electronic module (AEM) installed

- Carefully prise apart the sides of the connector holder in the ends so that the connector can pass by the retaining hooks.
- Pull out the connector.

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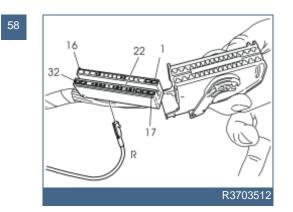
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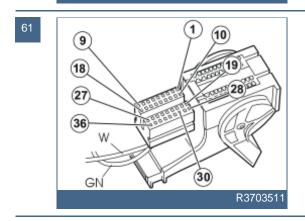
- Steps 51-66 apply to cars with an accessory electronic module (AEM) installed
 - Remove the red (R) cable from terminal 22.

Steps 51-66 apply to cars with an accessory electronic module (AEM) installed

• Press in the catch on the gray connector on the rear of the fuse holder in the cargo compartment. Turn the lock arm up as far as it will go and pull out the connector.

Steps 51-66 apply to cars with an accessory electronic module (AEM) installed

- Carefully prise apart the sides of the connector holder in the ends so that the connector can pass by the retaining hooks.
- Pull out the connector.

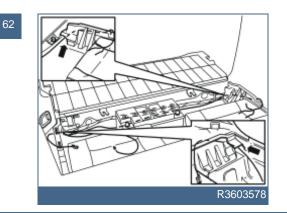


Steps 51-66 apply to cars with an accessory electronic module (AEM) installed

- Remove the green (GN) cable from terminal **19** and white (W) from terminal **30** in the connector.
- Remove the entire cable harness and place to one side. This will not be reused.

63A





Installing the cable harness

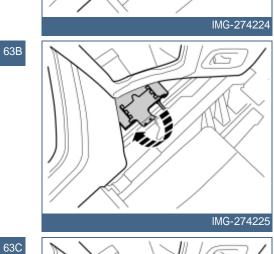
- Take the new cable harness (purchased separately), marked **A** in the kit image and place it behind the battery.
- Pull the cable end with black 4-pin connector through the hole in the rear edge of the right-hand cargo floor support, up to the accessory electronic module (AEM). Route the other end in a corresponding way to the fuse holder on the left-hand side.

Illustration A

• Connect the black 4-pin connector to the accessory electronic module (AEM).

Illustration B Illustration C

• Reinstall the module and tighten using the two screws.



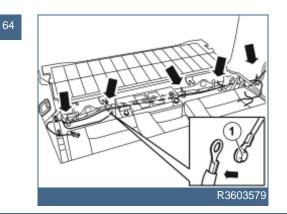


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66

67





- Take five cable ties from the kit and secure the wiring harness to the existing wiring harness as illustrated.
- Remove the ground screw and connect the ground lead (1) of the new wiring harness. Tighten the ground screw securely.

- Connect the red (R) cable to terminal **22** in the brown connector which was disconnected from the fuse holder.
- Reinstall the connector in the holder
- Reinstall the connector in the fuse holder.

• Connect the green (GN) cable to terminal **19** in the gray connector that was disconnected from the fuse holder, and the white (W) to terminal **30**.

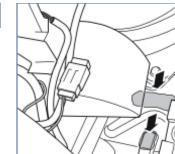
Note!

Make a note of the position number of the connector. The position numbers are located on the ends of the connector and in the bottom of the electronic control module.

- Reinstall the connector in the holder
- Reconnect the connector in the rear electronic control module (REM).
- Refit the Rear Electronic Module (REM).

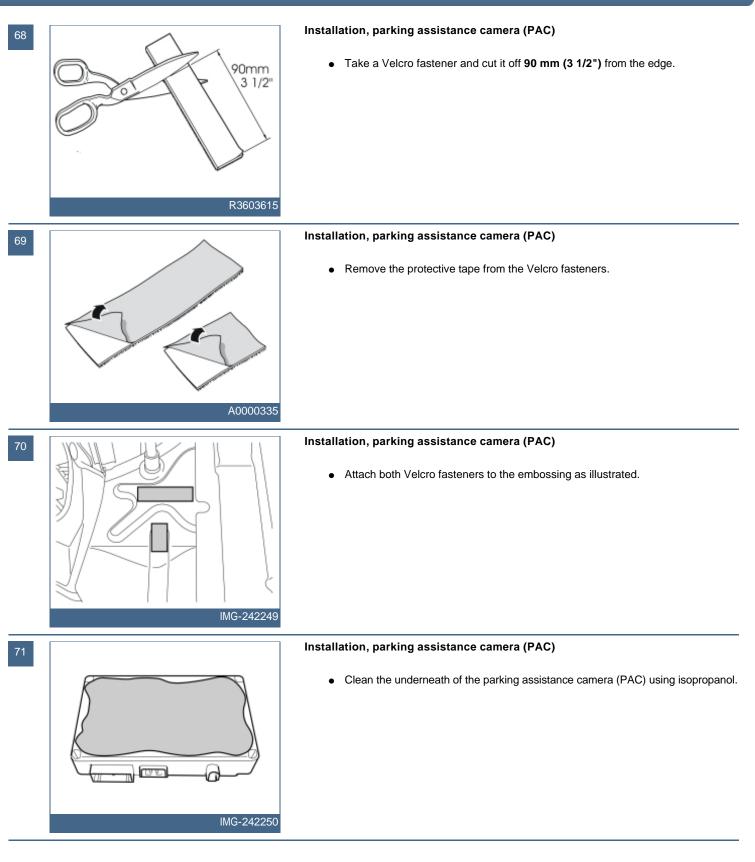
Installation, parking assistance camera (PAC) Steps 67-76 apply to cars without trailer module (TRM)

• Wash off the marked surfaces on the embossing on the back edge of left rear wheel housing using isopropanol. Wipe dry.

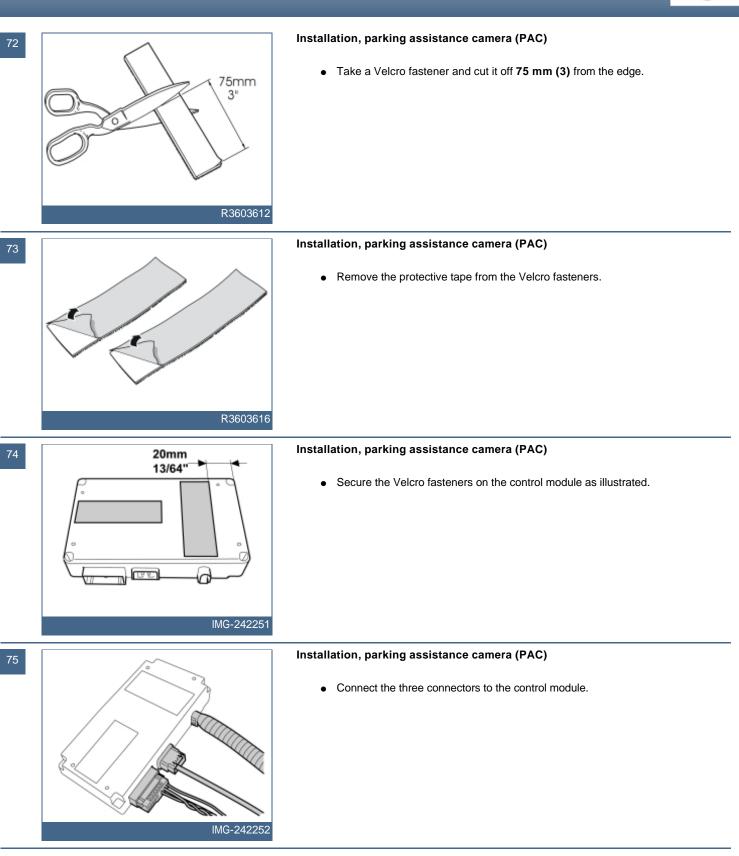


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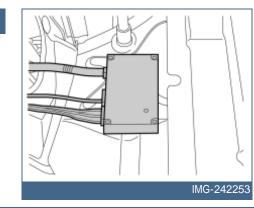


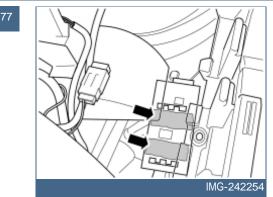
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Installation, parking assistance camera (PAC)

• Secure the control module on the newly attached Velcro fasteners. Press hard so that sits firmly.

Installation, parking assistance camera (PAC) Steps 77-85 apply to cars with a trailer module (TRM) installed

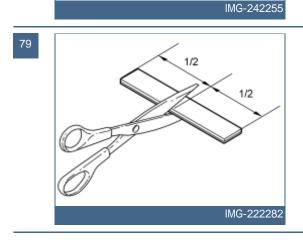
• Clean the surfaces, as illustrated, on the trailer module (TRM) using isopropanol.

Installation, parking assistance camera (PAC)

• Clean the underneath of the parking assistance camera (PAC) using isopropanol. Wipe dry.

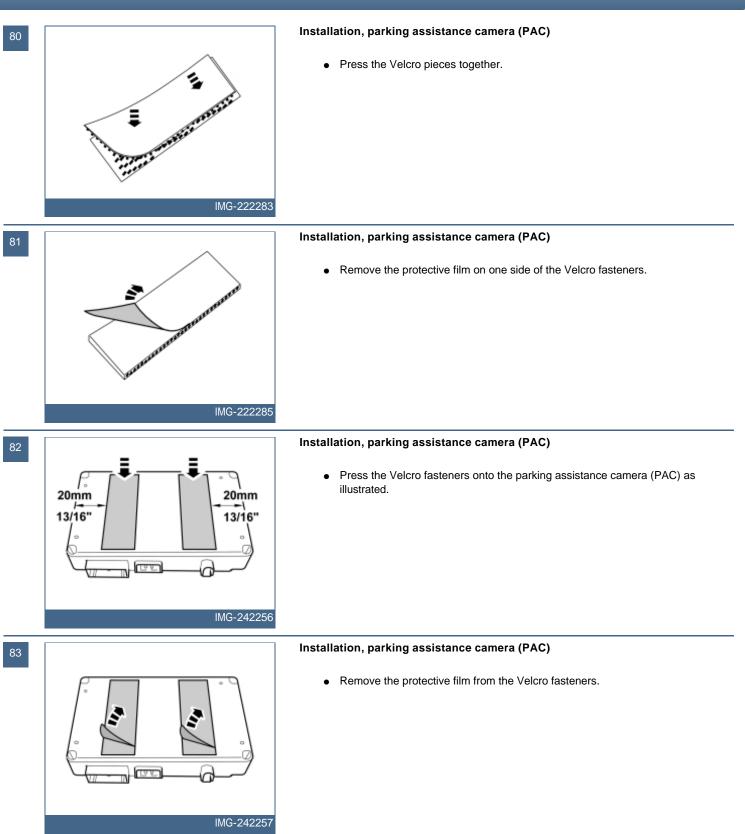
Installation, parking assistance camera (PAC)

• Remove the two Velcro fasteners from the kit and cut them in the middle.



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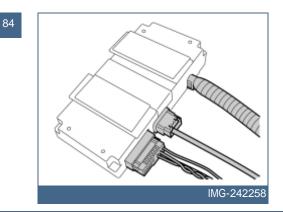
IMG-242260

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86





Installation, parking assistance camera (PAC)

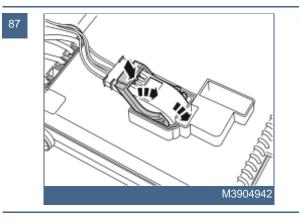
• Connect the three connectors to the control module.

Installation, parking assistance camera (PAC)

• Place the parking assistance camera (PAC) on the trailer module (TRM). It must be positioned so that the modules are edge-to-edge at the rear edge.

Connecting the rear electronic module (REM) Steps 86-89 apply to cars without an accessory electronic module (AEM)

• Remove the Rear Electronic Module (REM) by opening the lock (1) on the top. Tip the module forward and lift it out of the mountings (2).



Connecting the rear electronic module (REM)

• Press in the catch on the rear of the grey connector, twist the locking arm up as far as it will go and pull out the connector.

89

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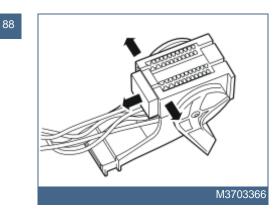
(18

(27

(36

GN





10

(30)

28

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IMG-274233

IMG-274234

Connecting the rear electronic module (REM)

- Carefully prise apart the sides of the connector holder in the ends so that the connector can pass by the retaining hooks.
- Pull out the connector.

Connecting the rear electronic module (REM)

Note!

Make a note of the position number of the connector. The position numbers are located on the ends of the connector and in the bottom of the electronic control module.

- Connect the green (GN) cable to terminal **19** in the connector. Connect the white (W) cable to terminal **30**.
- Reinstall the connector in the holder
- Reconnect the connector in the rear electronic control module (REM).
- Refit the Rear Electronic Module (REM).

Steps 90-95 apply to cars with an accessory electronic module (AEM) installed

• Connect the large black female connector in the pre-routed cable harness, to the connector for towbar wiring in the fuse holder.

Secure the excess of the large black male connector using a cable tie from the kit.

Steps 91-92 apply to cars with a towbar
Disconnect the towbar wiring connector from the fuse holder.

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- Connect the large black female connector in the pre-routed cable harness to the fuse holder.
- Connect the towbar wiring connector, which was disconnected from the fuse holder to the corresponding one in the routed cable harness.

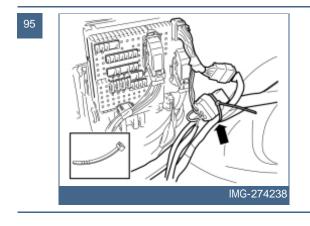
93

94



- Steps 93-95 apply to cars with a towbar wiring adapter
- Disconnect the towbar wiring adapter's connector from the fuse holder.

- Connect the large black female connector in the pre-routed cable harness to the fuse holder.
- Connect the towbar wiring adapter's connector, which was disconnected from the fuse holder to the corresponding one in the routed cable harness.



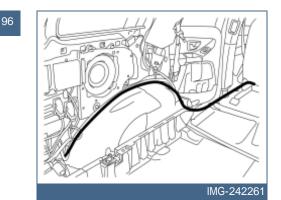
IMG-274237

• Secure the loose cables and the small fuse holder using a cable tie.

97

98





Connection to multimedia module (MMM)

• Route both adapter cables (5 way green and 12 way gray connector) along the molding and up to the driver's seat.

Connection to multimedia module (MMM)

• Disconnect the two connectors on the multimedia module (MMM).

MG-242263

IMG-242262

Connection to multimedia module (MMM)

• Connect the pre-routed adapter cables to the multimedia module (MMM) and to respective disconnected connectors.

Note!

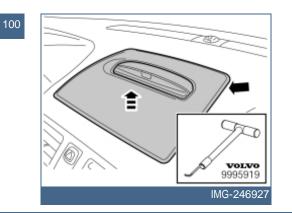
Route the new cables under the existing cables.

Connection to multimedia module (MMM)

• Place the connectors and excess wiring in the joint under the carpet.

101





Installation, ground strip

• Insert the tool's hook between the dashboard and the louvre. Turn the tool 90° and pull the louvre straight up.

WG-246928

Installation, ground strip

• Remove the five screws.

Installation, ground strip

Applies to cars without a centrally mounted loudspeakerLift up the monitor unit and place it on the dashboard.

Note!

Place some protection under the monitor unit so as not to damage the dashboard.

Applies to cars with a centrally mounted loudspeaker

• Remove the three connectors.

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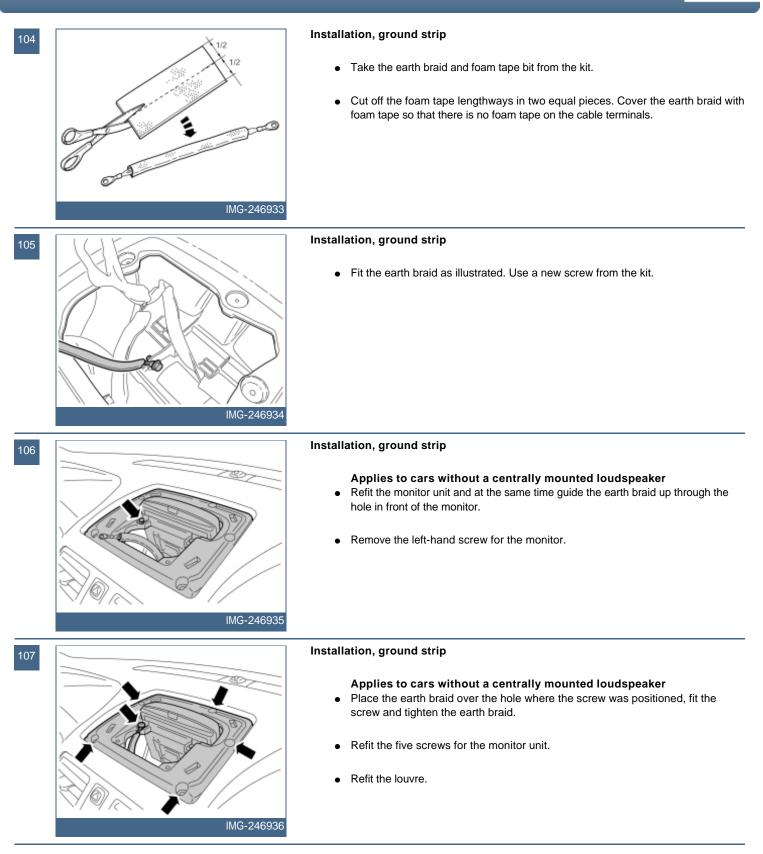
IMG-246929

Installation, ground strip

• Remove the M6 screw.

Volvo Car Corporation Göteborg, Sweden

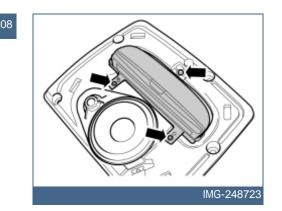




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Installation, ground strip

Steps 108-113 apply to cars with a centrally mounted loudspeaker

- Remove the three screws for the monitor.
- Remove the monitor by first angling it backwards at the lower edge and then guiding it out.

Installation, ground strip

• Locate the end by the left-hand mounting point for the monitor on the loudspeaker frame.

Installation, ground strip

IMG-248724

• Measure and mark out two points according to the image.

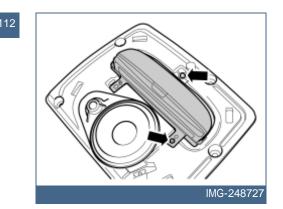
Installation, ground strip

- Pre-drill in the centers of the markings using a Ø 2mm (5/64") diameter drill bit.
- Then drill out the holes. Use a Ø 8mm " (5/16") drill bit.
- Cut away the part between the drill holes as illustrated.

(5/8") (5/16') (3/16') IMG-248725 111

15mm





Installation, ground strip

• Reinstall the monitor and tighten using two screws as illustrated.



Installation, ground strip

- Take the loose end of the ground strip and thread it through the drilled holes from underneath.
- Secure the cable terminal using the screw for the monitor and tighten.
- Reinstall the monitor unit with its five screws.
- Refit the louvre.

Finishing work

IMG-242267

Install:

- the sill trim panels.
- panel over the joint between the door sills.
- seat belt.

Note!

Check that the seat belt is secure by jerking it hard in an upwards direction.

- seat, tighten the screws to 50 Nm (36.8 lbf.ft.).
- seat links.
- side panels.
- Turn the ignition key to position II.
- Reconnect the battery negative lead
- Refit the floor hatches.





Finishing work

- Download the software for the accessory's function following the service information in VIDA.
- Check the position of the camera using the calibration program. See VIDA under "Diagnostics/Vehicle communication/Advanced".

Note!

If the camera lens cannot be correctly positioned, remove the lens and drill out the two holes in the tailgate for the screws. If necessary, file the rectangular holes so that the camera lens can be adjusted to the correct position.

• Refit the trunk lid's panels and lamp.