

Volvo Car Corporation Gothenburg, Sweden

Instruction No 31408458 Version 1.2 Part. No. 31399352

Parking assistance, pilot

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Parking assistance, pilot- 31408458 - V1.2

Page 1 / 75

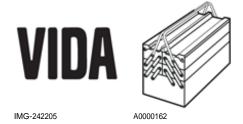


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Special tools	
	999 7234 Hole stamp
	Tool number:999 7234
	Tool description:Hole stamp
	Tool boards:80
	951 2950 Glue gun (kit)
	Tool number:951 2950
	Tool description:Glue gun (kit)
	Tool boards:08
	951 2932 Tension spring
	Tool number:951 2932
	Tool description:Tension spring
	Tool boards:80

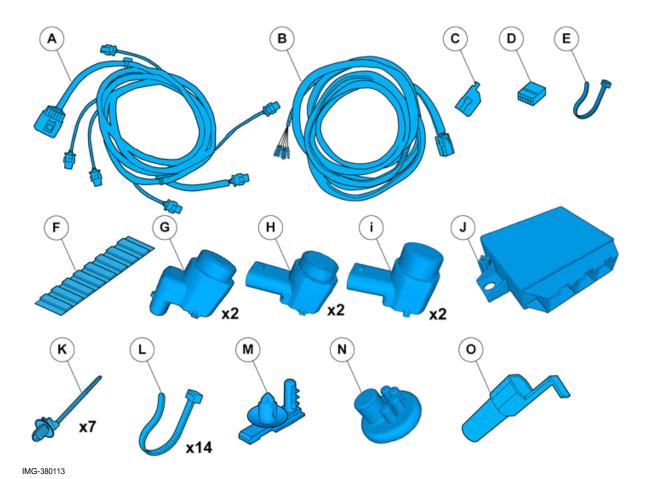
Materials	
Designation	Part number
Isopropanol	1161721
Sand paper P1000	
Volvo Original Touch-up paint	
Varnish 2-component	31335447
Primer	1161765
Mixing pipe	1161730
Glue	9511027
Electrical tape	

### **Equipment**



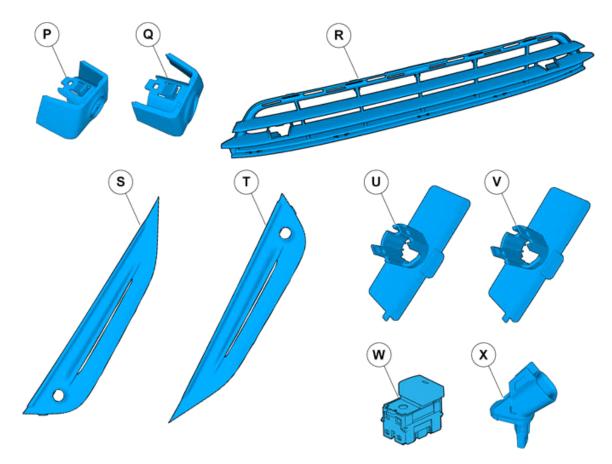


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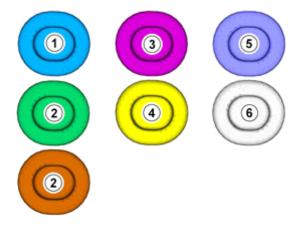
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	36656-2 Parking assistance, front, R-design
	Information
1	Read through all of the instructions before starting installation.
	Notifications and warning texts are for your safety and to minimise the risk of something breaking during installation.
	Ensure that all tools stated in the instructions are available before starting installation.
	Certain steps in the instructions are only presented in the form of images. Explanatory text is also given for more complicated steps.
	In the event of any problems with the instructions or the accessory, contact your local Volvo dealer.
	Further information
2	These installation instructions show installation on left hand drive cars.
	When installing on right-hand drive cars, perform the procedures on the opposite side and/or mirrored.
	Where the procedure differs, the right-hand version is also shown with text and image.
	Color symbols



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3



IMG-363036

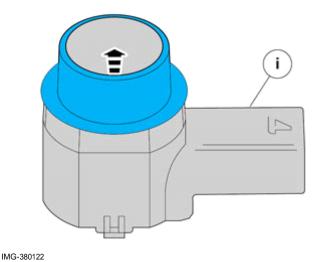
#### Note!

This colour chart displays (in colour print and electronic version) the importance of the different colours used in the images of the method steps.

- Used for focused component, the component with which you will do something.
- Used as extra colors when you need to show or differentiate additional parts.
- 3. Used for attachments that are to be removed/installed. May be screws, clips, connectors, etc.
- Used when the component is not fully removed from the vehicle but only hung to the side.
- 5. Used for standard tools and special tools.
- 6. Used as background color for vehicle components.

#### **Paintwork**

4

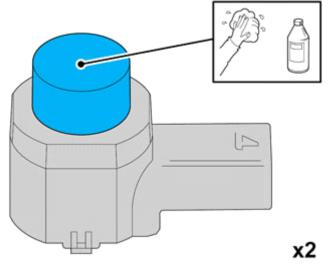


x2



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5

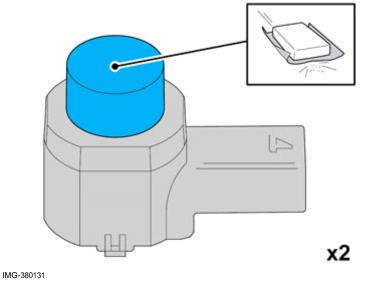


Clean the surface.

Use: 1161721, Isopropanol

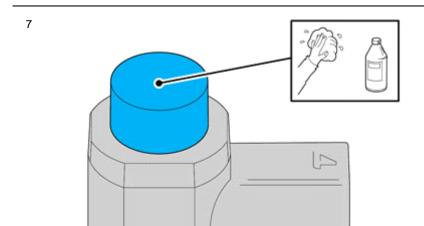


6



Matt the surface gently.

Use: , Sand paper P1000



Clean the surface.

x2

Use: 1161721, Isopropanol



IMG-380132

### Installation instructions, accessories

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8

### Caution!

Protect connector surfaces against paint spray.

#### Note!

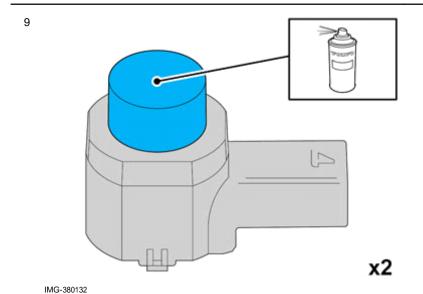
Use correct color following the vehicle's paint code.

Use: , Volvo Original Touch-up paint

Use base coat only.

Also see the instructions on the container.

Allow to dry.

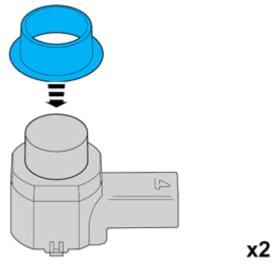


Use: 31335447, Varnish 2-component

Also see the instructions on the container.

Allow to dry.

10



### Caution!

First the paint must dry after painting.

IMG-380178 © Volvo Car Corporation

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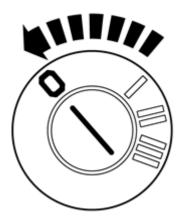


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### Removal

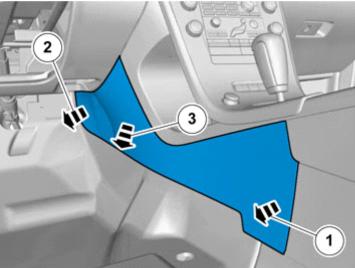
11

Set the ignition key to position 0.



IMG-332193

12

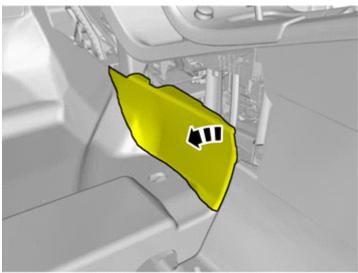


Remove the panel.



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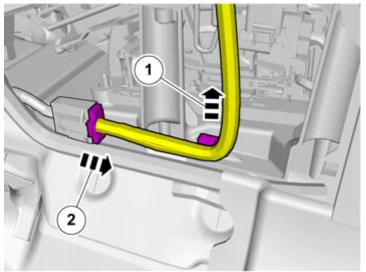
13



Fold the carpet to the side.

IMG-292806

14

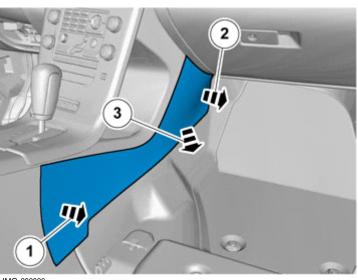


Unhook the cable harness clips.

Disconnect the connector.

IMG-292823

15



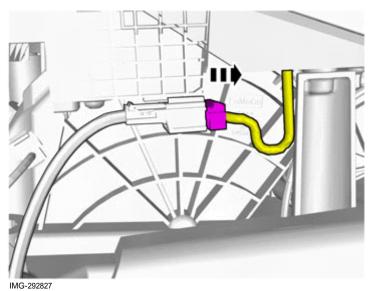
Remove the panel.

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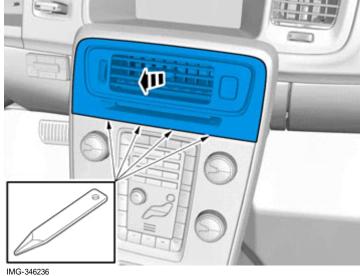
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16

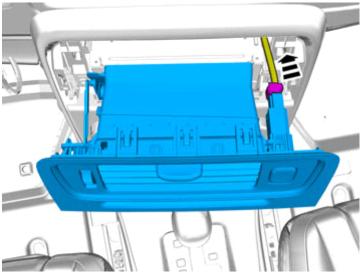


Disconnect the connector, if applicable.

17



18



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Disconnect the connector.



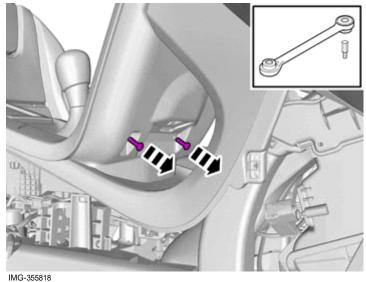
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Remove the screws.



20

IMG-340985



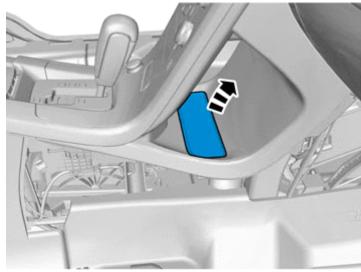
Remove the screws.

Cars with automatic transmissions



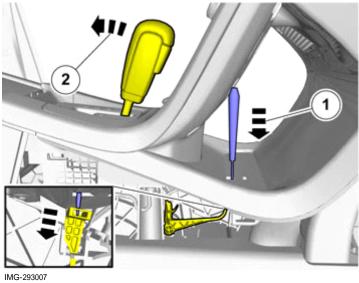
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IMG-293006



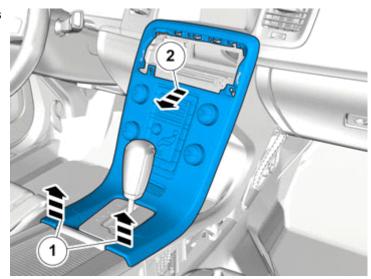


Release the shift-lock function.

#### All vehicles

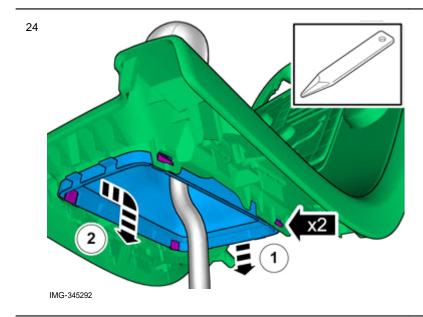


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IMG-340981

### Cars with manual transmissions



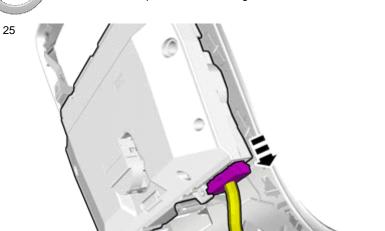
All vehicles



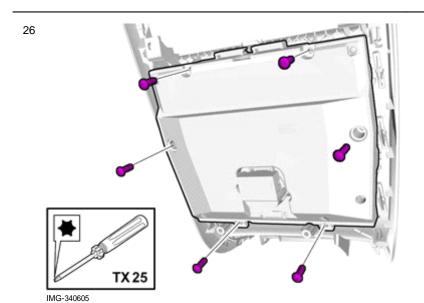
IMG-340604

# Installation instructions, accessories

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Disconnect the connector.



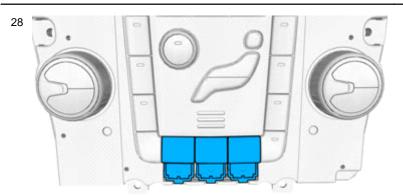
Remove the screws.



Remove the marked part.



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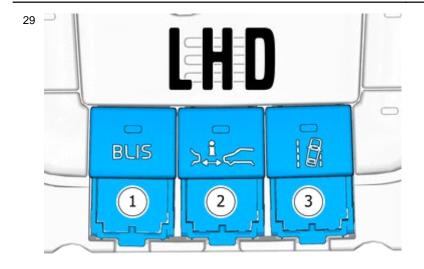
Note!

Orientation view

Select the first free position closest to the driver.

IMG-381763

#### Left hand drive vehicles



If all locations for the switch are occupied a switch with function must be removed in priority order as illustrated.

- 1. BLIS
- 2. Distance Alert
- 3. Lane depature warning (LDW)

IMG-396256

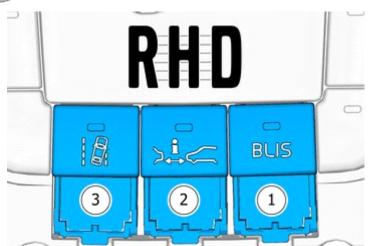
### Right-hand drive vehicles



30

## Installation instructions, accessories

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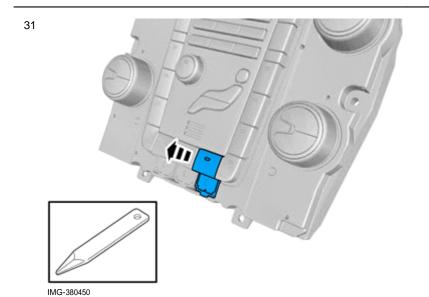


If all locations for the switch are occupied a switch with function must be removed in priority order as illustrated.

- 1. BLIS
- 2. Distance Alert
- 3. Lane depature warning (LDW)

IMG-396255

#### All vehicles



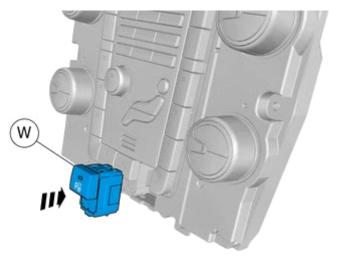
Remove the marked part.

### **Accessory installation**



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32



Install component that comes with the accessory kit.

IMG-380454

#### Installation

33



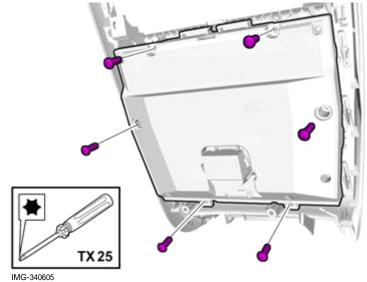
Reinstall the removed part.

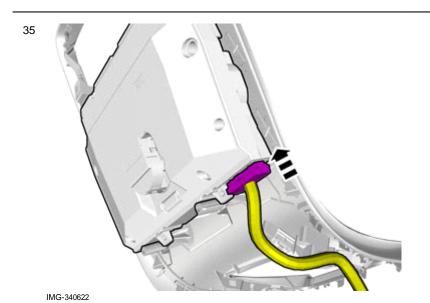


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34

Reinstall the screws.





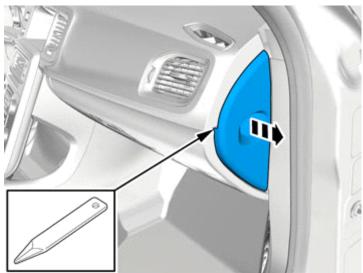
Connect the connector.

Removal



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36



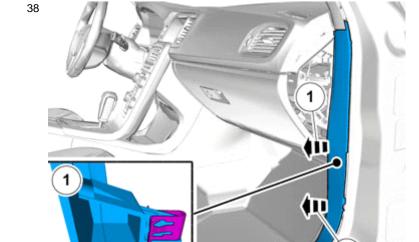
Remove the panel.

IMG-344926

IMG-344927



Remove the weatherstrip.

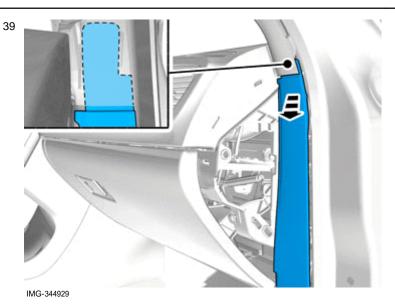


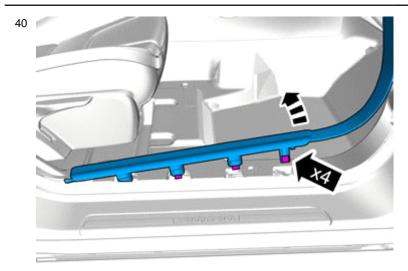
#### Caution

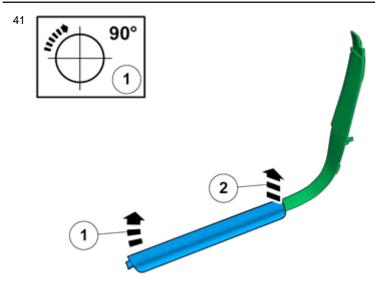
The front and upper sill panel must be removed and installed as one unit.



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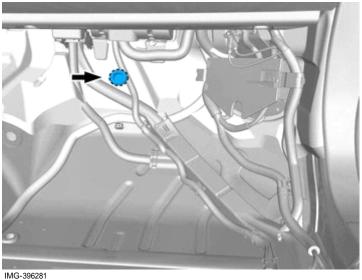
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42

Fold the carpet to the side.

IMG-375379

43



Locate the rubber grommet under the insulating mat.



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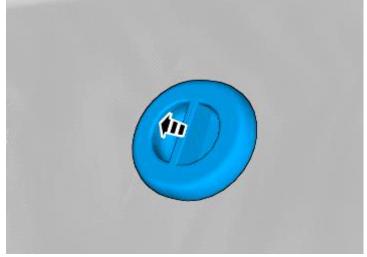


Fold the insulation to one side.



Remove the marked part.

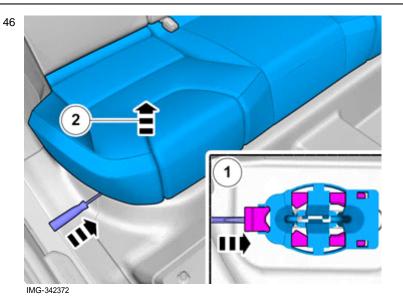
The part is not to be reused.



IMG-385185

IMG-396796

45



Repeat on the other side.

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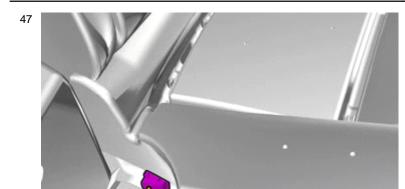
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IMG-341902

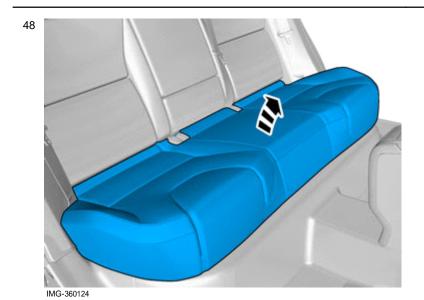
# Installation instructions, accessories

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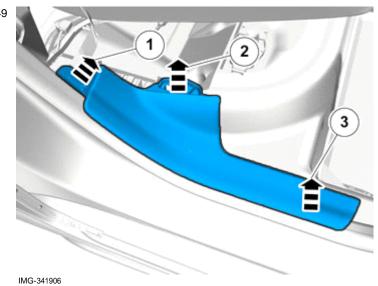


Disconnect the connector, if applicable.

Repeat on the other side.



Remove the marked part.



Remove the panel.

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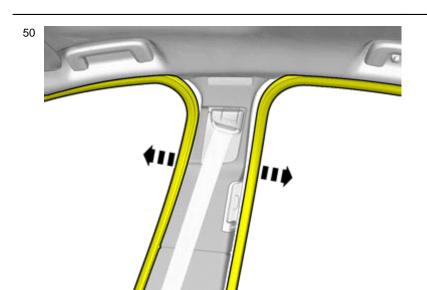
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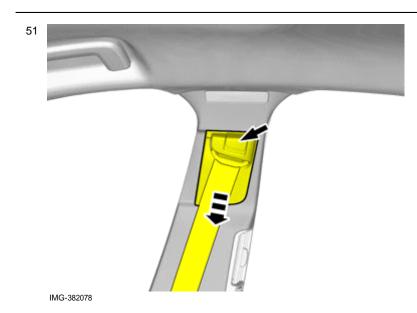
IMG-382077

# Installation instructions, accessories

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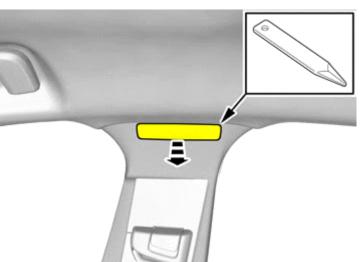
Remove the weatherstrips.





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Detach the panel.

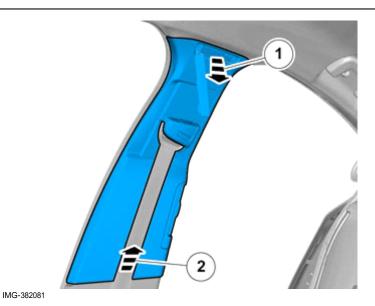






Remove the nuts.





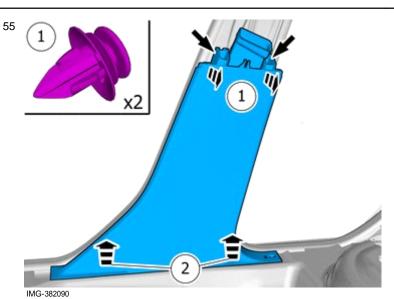
Remove the panel.

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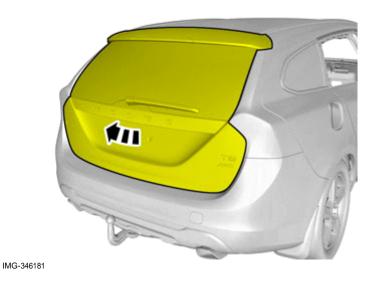


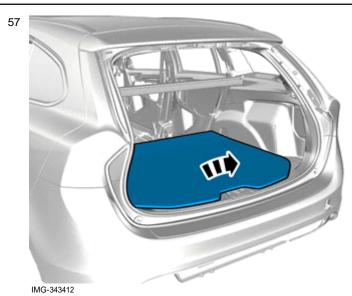
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Remove the panel.

56

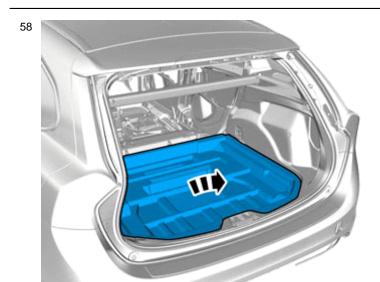




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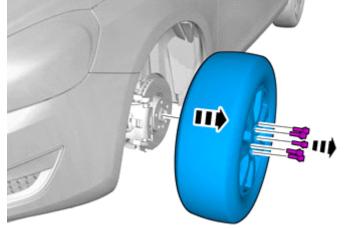


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59

IMG-343413



Caution!

Left side! This step applies also to right-hand drive vehicles!

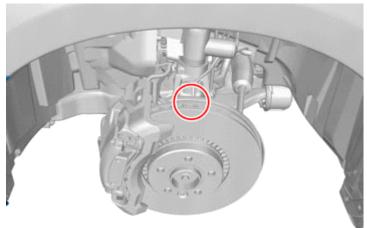
Tightening torque: Wheel to wheel hub

Stage 1: 20 Nm Stage 2: 140 Nm



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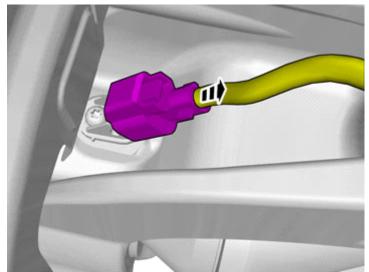
60



**Note!** Orientation view

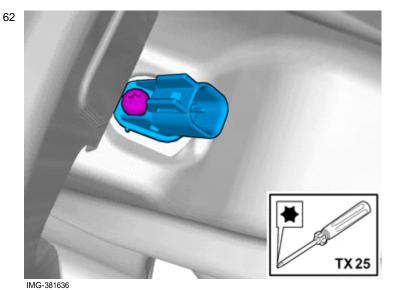
IMG-381634

61



Disconnect the connector.

IMG-381635



Remove the screw.

Remove the marked part.

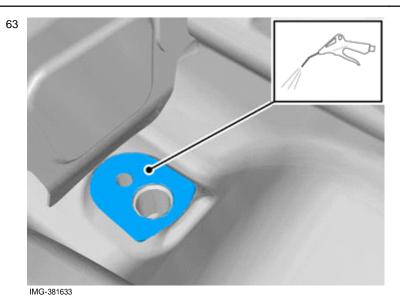
The part is not to be reused.

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### **Accessory installation**

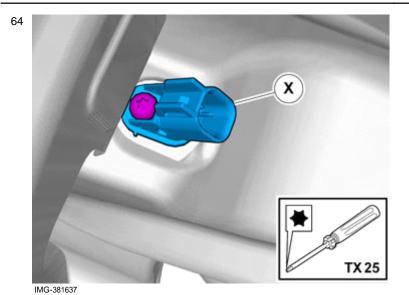


### Caution!

Left side! This step applies also to right-hand drive vehicles!

#### Note!

Make sure that the mating faces are clean and free of foreign material.



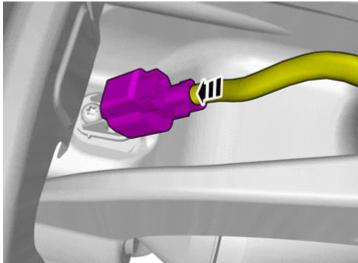
Install component that comes with the accessory kit.

Tightening torque: M5, 5 Nm



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65

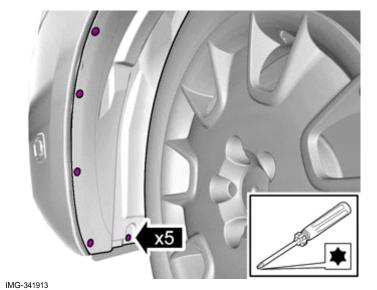


Connect the connector.

#### IMG-381638

### Removal

66



Remove the screws.

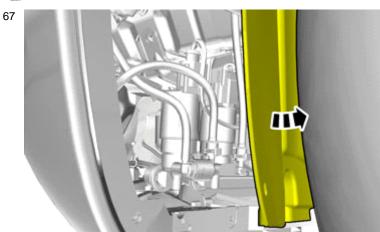
### Vehicles with headlamp washers



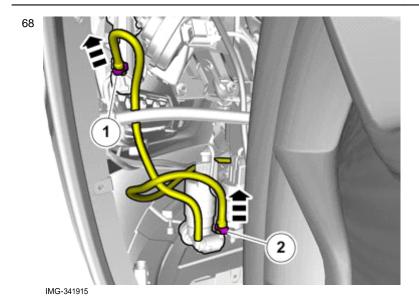
IMG-341914

# Installation instructions, accessories

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Fold the wing liner to one side.



### Warning!

Be prepared to collect escaping fluid.

1.

#### Note!

Tape the hose high up on the washer fluid reservoir to previousher fluid from coming out.

2. Take a piece of washer hose. Tie a knot in it and place it on tl washer pump to prevent the washer fluid reservoir from emptying.

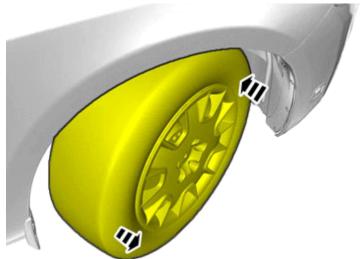
Right-hand drive vehicles



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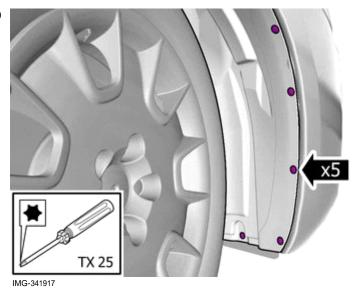
69

Turn the wheel inwards.



IMG-341916

70



Remove the screws.

71



Fold the wing liner to one side.

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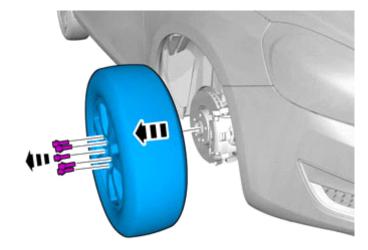
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#### Left hand drive vehicles

72

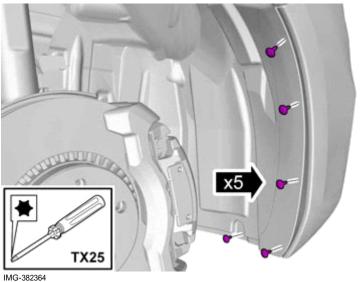


Tightening torque: Wheel to wheel hub

Stage 1: 20 Nm Stage 2: 140 Nm

IMG-382362

73



Remove the screws.



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74

TX25

Remove the screws.

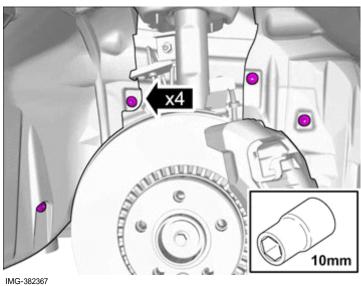
75



Remove the marked part.

IMG-382366

76



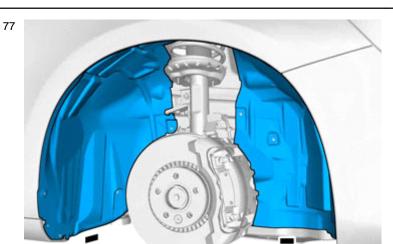
Remove the nuts.

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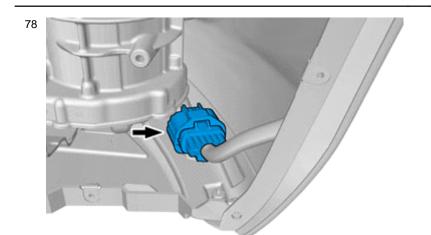
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Remove the marked part.

IMG-382368

#### All vehicles



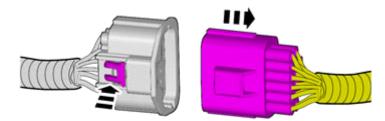
Locate the connector.



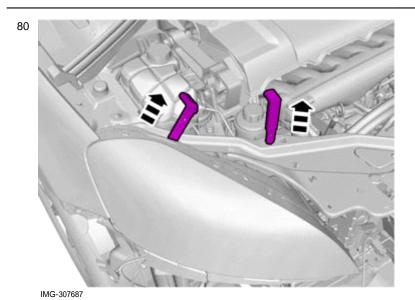
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79

- 1. Depress the locking device.
- 2. Disconnect the connector.

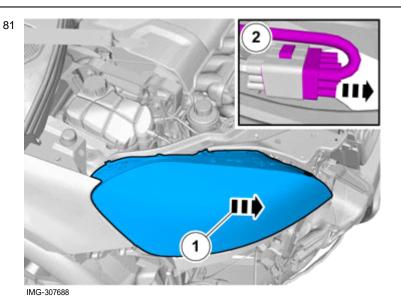


IMG-378285



Release the locks.

RHD: The procedure is carried out on the opposite side.



Remove the marked part.

Disconnect the connector.

RHD: The procedure is carried out on the opposite side.

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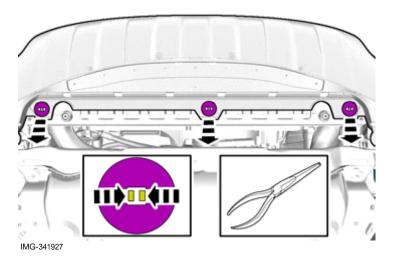


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82

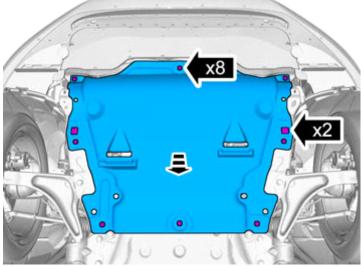
Remove the marked part.

83



Remove the clips.

84



Remove the clips.

Remove the screws.

Remove the marked part.

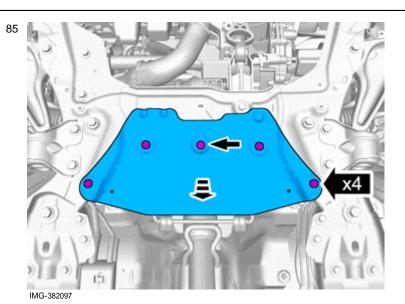
IMG-382096

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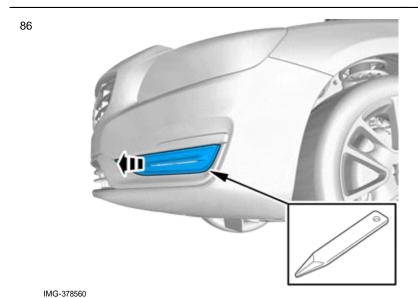
Volvo Car Corporation Gothenburg, Sweden



Remove the clip.

Remove the screws.

Remove the marked part.



Remove the marked part.

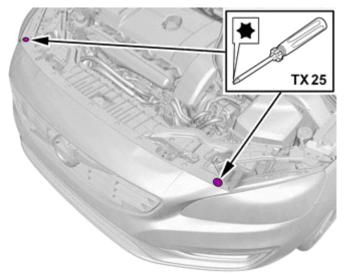
The part is not to be reused.

Repeat on the other side.



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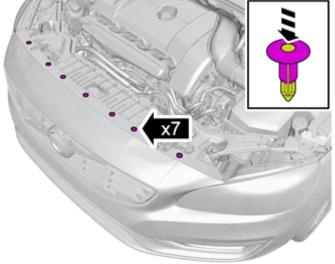
87



Remove the screws.

IMG-378108

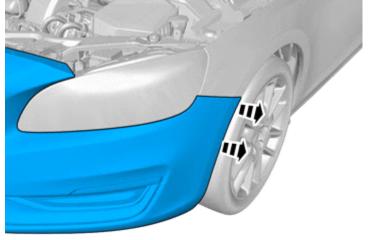
88



Remove the clips.

IMG-378111

89

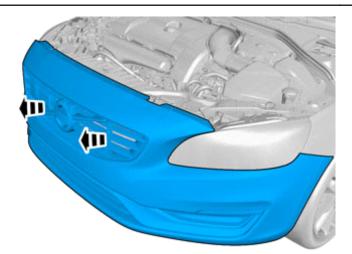


Repeat on the other side.



Volvo Car Corporation Gothenburg, Sweden

90

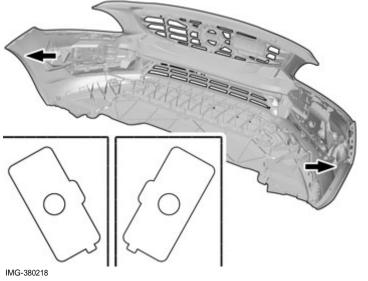


#### Caution!

Place the Bumper Cover on a suitable surface.

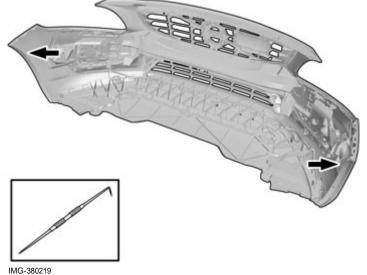
IMG-378577





Locate the markings for the positions.





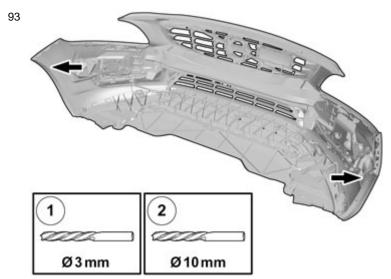
Mark the centre.

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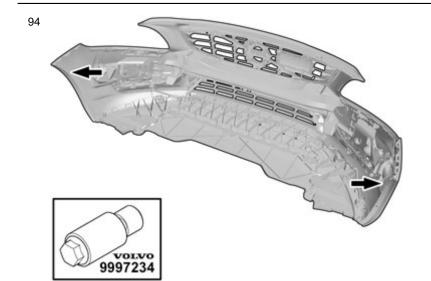


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IMG-380220

IMG-380221



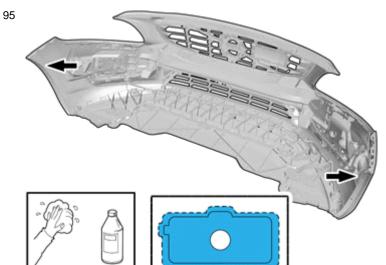
Use special tool: T9997234, Hole stamp



IMG-380222

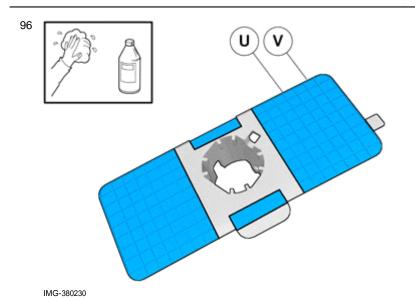
## Installation instructions, accessories

Volvo Car Corporation Gothenburg, Sweden



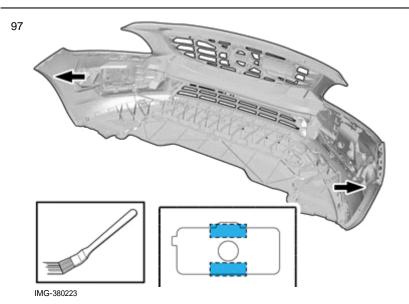
Clean the surface.

Use: 1161721, Isopropanol



Clean the surface.

Use: 1161721, Isopropanol



Use: 1161765, Primer

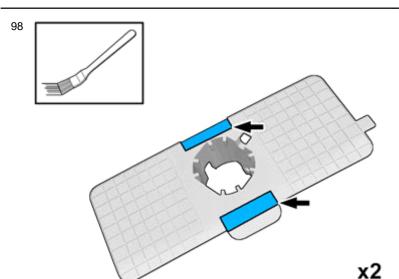
Allow to dry for at least 2 minutes, but no more than 60minutes.



IMG-380231

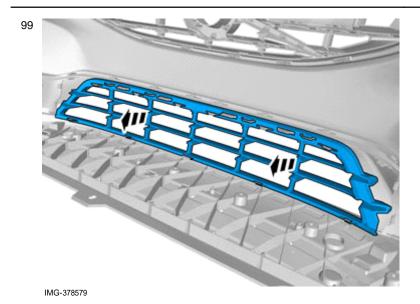
# Installation instructions, accessories

Volvo Car Corporation Gothenburg, Sweden



Use: 1161765, Primer

Allow to dry for at least 2 minutes, but no more than 60minutes.



The part is not to be reused.

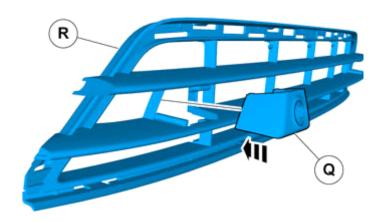
**Accessory installation** 



Volvo Car Corporation Gothenburg, Sweden

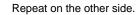
100

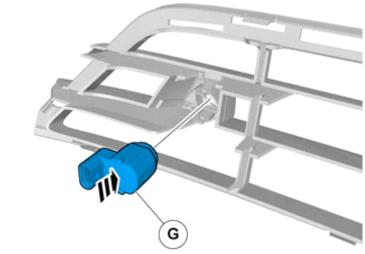
Repeat on the other side.

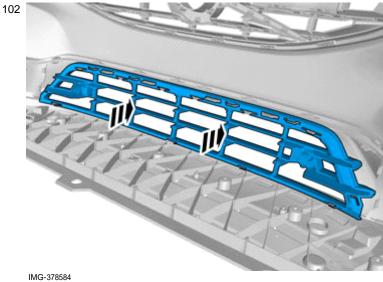


IMG-378581

101

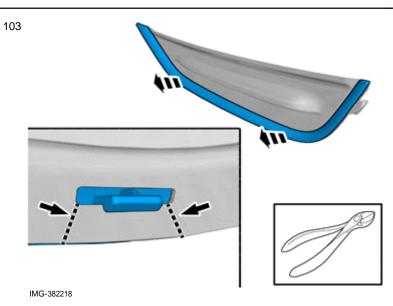




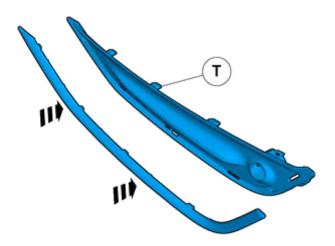




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104



IMG-382219

T H

IMG-378590 © Volvo Car Corporation



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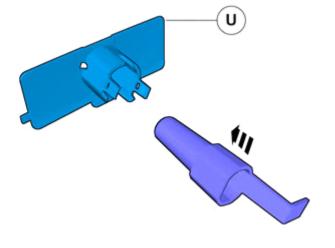




Repeat on the other side.

IMG-378591

107



#### Note!

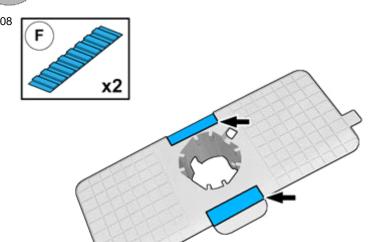
Prepare and install one holder at a time.



IMG-380259

## Installation instructions, accessories

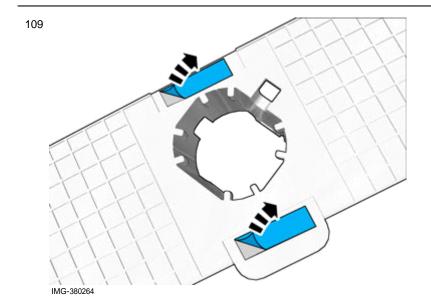
Volvo Car Corporation Gothenburg, Sweden



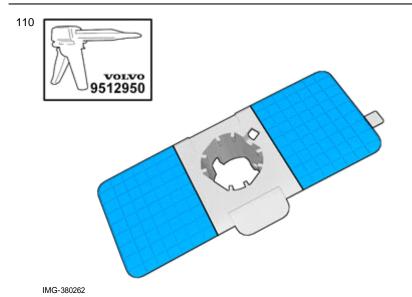
Note!

x2

Ensure that the tape is fixed to the surface.



Remove the protective film.



Warning!

Wear protective gloves.

Warning!

Make sure to provide adequate ventilation.

Use special tool: T9512950, Glue gun (kit)

**Use:** 1161730, Mixing pipe **Use:** 9511027, Glue

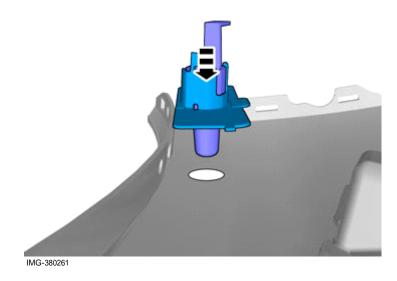
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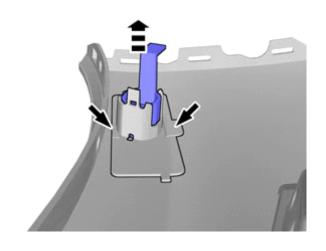


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111



112

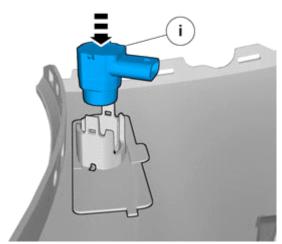


#### Note!

Hold the part securely at the marker arrows when removing the tool.

IMG-380275

113



Repeat on the other side.

IMG-380279 © Volvo Car Corporation

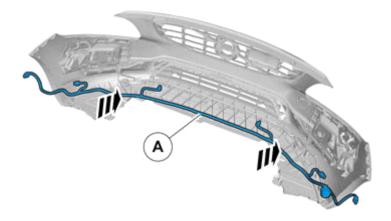


Volvo Car Corporation Gothenburg, Sweden

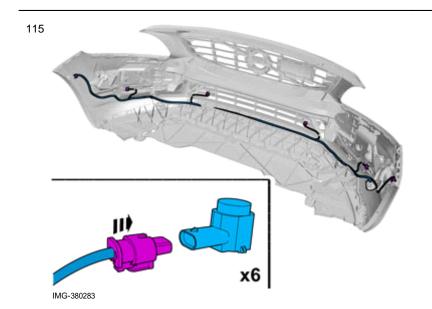
114

Put the wiring in the Bumper cover without installing the wiring.

RHD: The cable harness is positioned mirrored.



IMG-378592



Connect the connectors.



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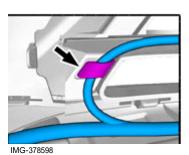
116

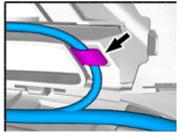


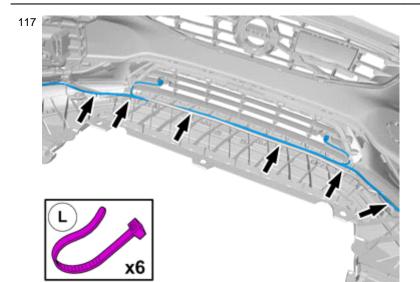
#### Note!

Make sure that the wiring harness is not visible from outside.

Position/route the cable harness as illustrated.



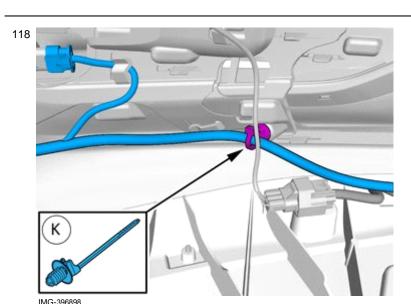




Route the cable harness to the existing cable harness.

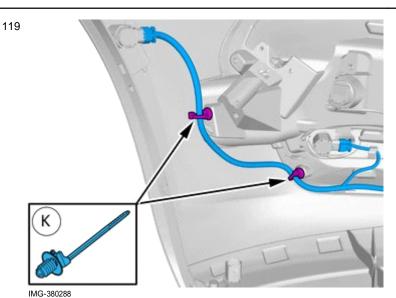
Adjust the position of the wiring harness.

Tighten the cable ties.

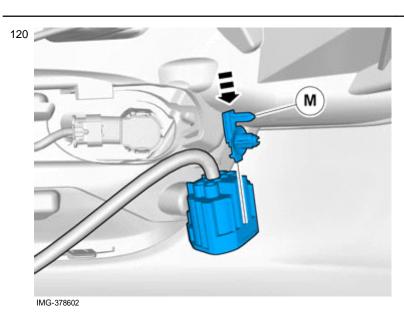


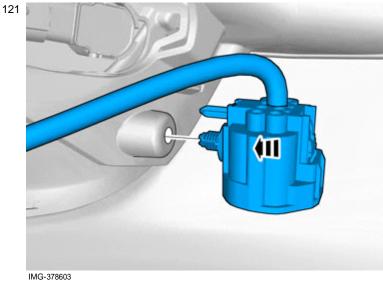


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Repeat on the other side.



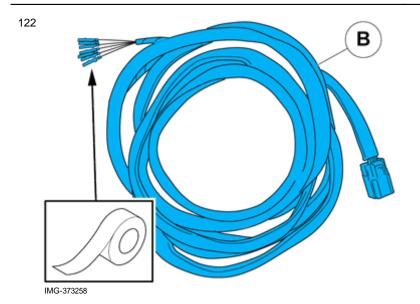


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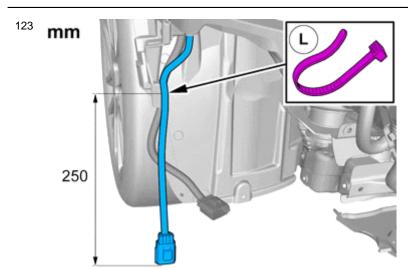


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#### Left hand drive vehicles



Use: , Electrical tape

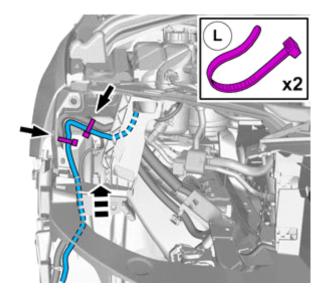


Position/route the cable harness as illustrated.



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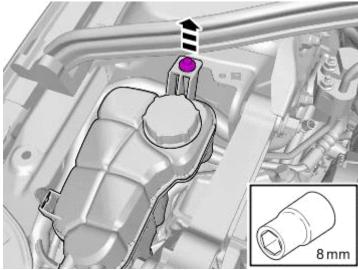
124



Position/route the cable harness as illustrated.

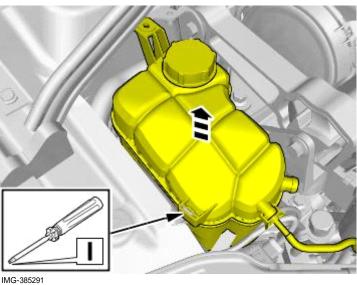
IMG-382240

125



Remove the screw.

126



Remove the marked part.

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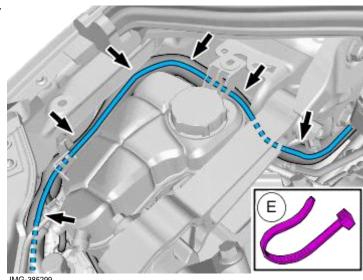
Parking assistance, pilot- 31408458 - V1.2



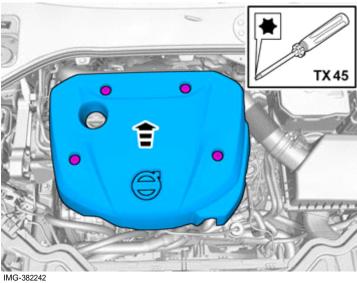
Volvo Car Corporation Gothenburg, Sweden

127

Position/route the cable harness as illustrated.



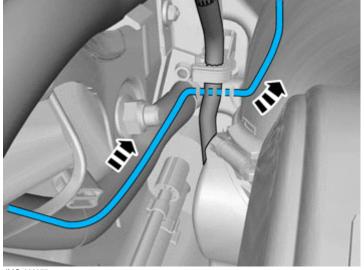
128



Remove the screws.

Remove the marked part.

129



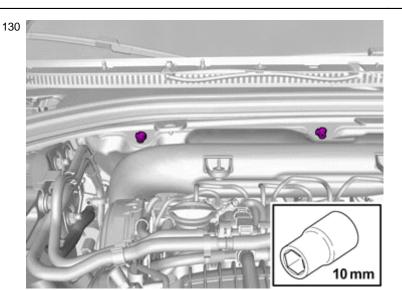
IMG-382377

© Volvo Car Corporation

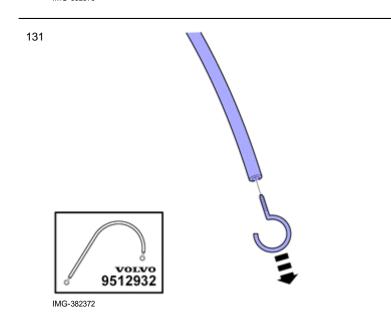
Position/route the cable harness as illustrated.



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Remove the nuts.

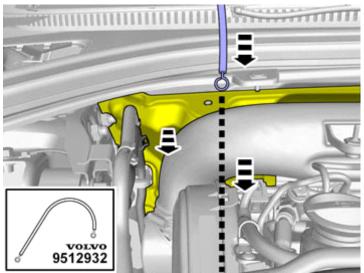


Use special tool: T9512932, Tension spring



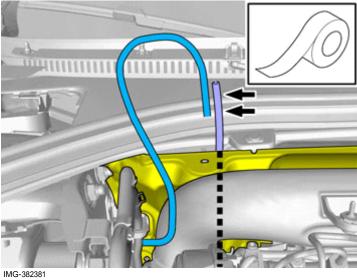
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132



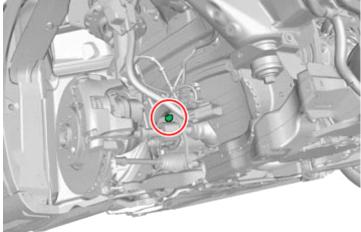
IMG-382378

133



Use: , Electrical tape

134



#### Note!

Orientation view

#### Note!

On some markets the rubber grommet may be covered by the heat shield.



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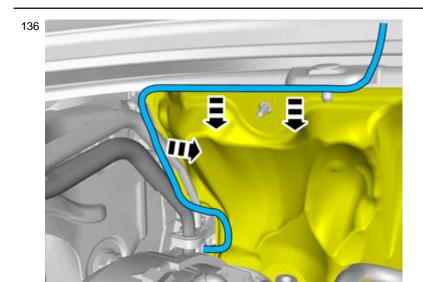
135

Pull the wiring through.

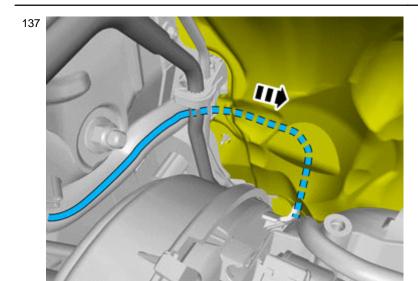
Remove the Special Tool.



IMG-382392



Position/route the cable harness as illustrated.

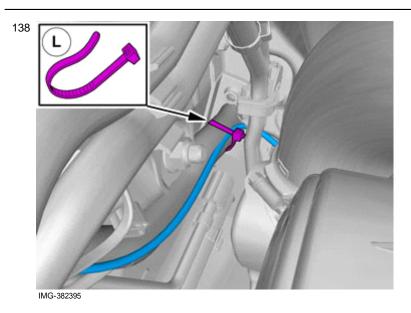


Position/route the cable harness as illustrated.

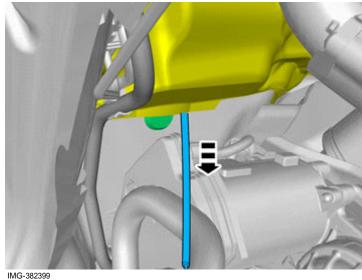
IMG-382393 © Volvo Car Corporation



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139

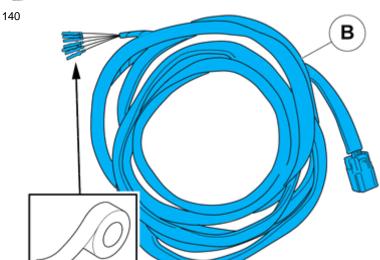


Pull the wiring through.

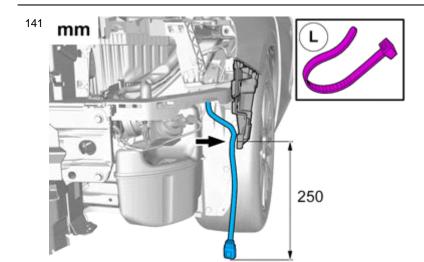
Right-hand drive vehicles



Volvo Car Corporation Gothenburg, Sweden



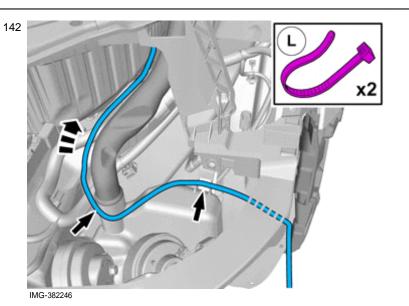
Use: , Electrical tape



Position/route the cable harness as illustrated.



IMG-373258



Position/route the cable harness as illustrated.

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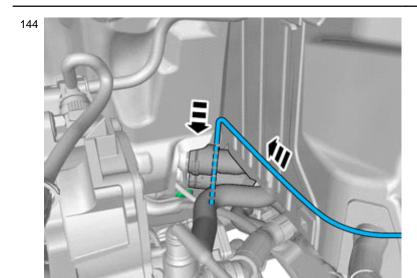
143



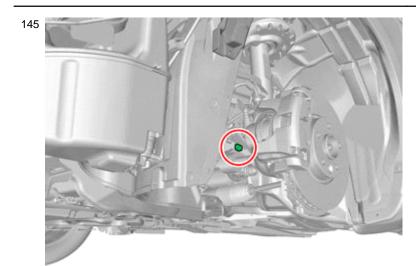
IMG-382247

IMG-382258

Position/route the cable harness as illustrated.



Position/route the cable harness as illustrated.



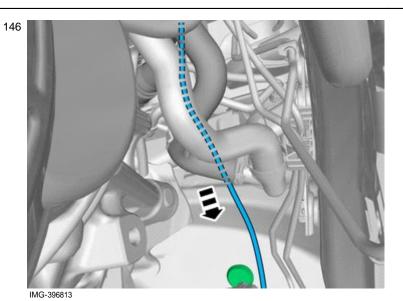
Note!

Orientation view

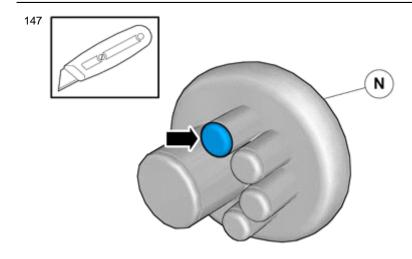
IMG-382262 © Volvo Car Corporation



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#### All vehicles

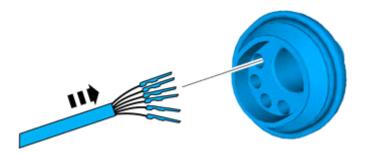




Volvo Car Corporation Gothenburg, Sweden

148

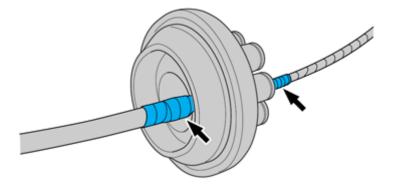
Pull the wiring through.



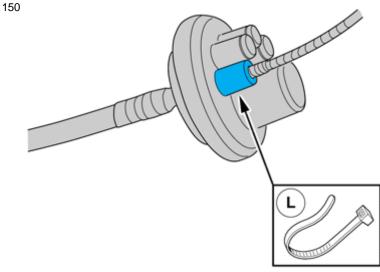
IMG-382174

149

Place the component where indicated in the graphic.



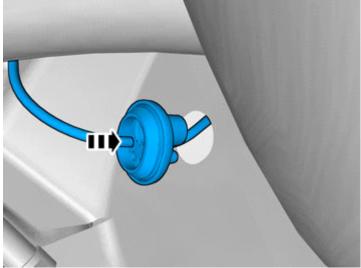
IMG-382176





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151

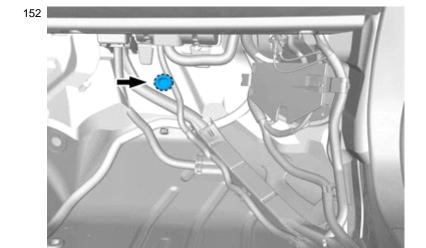


#### Note!

Push the rubber grommet well through the hole.

Route the wiring harness into the passenger compartment.

IMG-382183

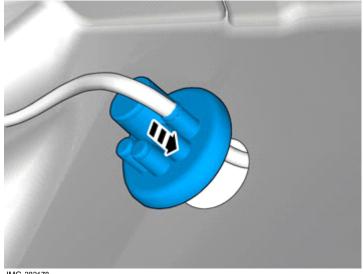


#### Note!

Orientation view

153

IMG-396281



#### IMG-382178

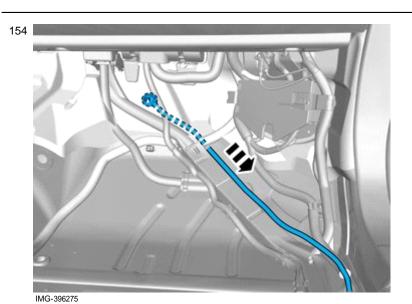
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#### Caution!

Make sure that the rubber grommet seals properly to the body.

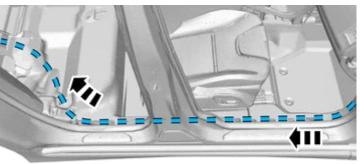


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Position/route the cable harness as illustrated.





Position/route the cable harness as illustrated.

IMG-396277

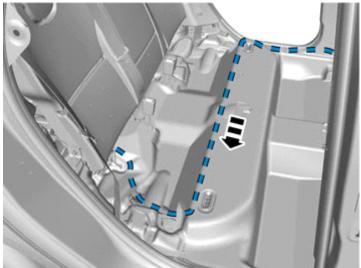
Right-hand drive vehicles



Volvo Car Corporation Gothenburg, Sweden

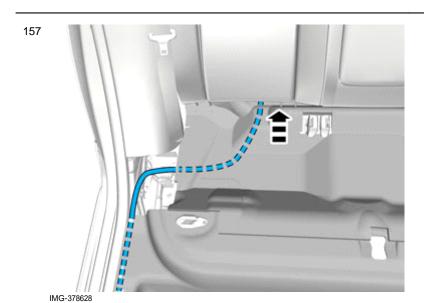
156

Position/route the cable harness as illustrated.



IMG-308083

#### All vehicles



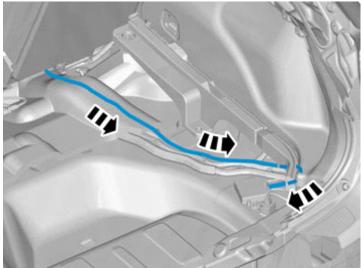
Position/route the cable harness as illustrated.



Volvo Car Corporation Gothenburg, Sweden



Position/route the cable harness as illustrated.

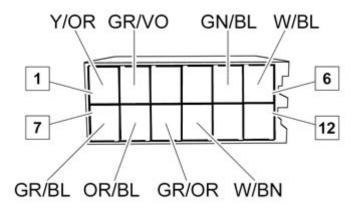


IMG-346331

#### Left hand drive vehicles

159

Connect the cable harness terminals in the connector as follows.



IMG-361341

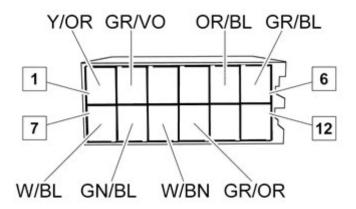
#### Right-hand drive vehicles



Volvo Car Corporation Gothenburg, Sweden

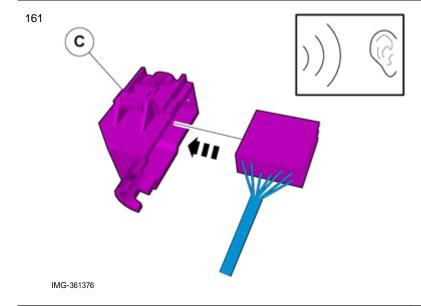
160

Connect the cable harness terminals in the connector as follows.



IMG-361342

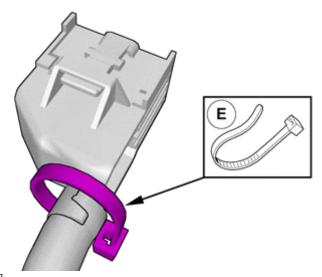
#### All vehicles





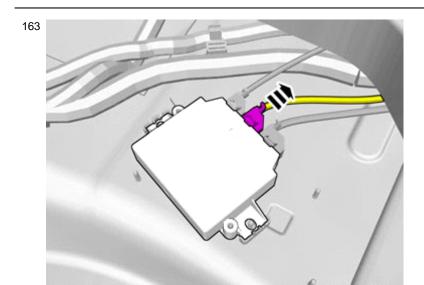
Volvo Car Corporation Gothenburg, Sweden

162



IMG-361377

IMG-378052

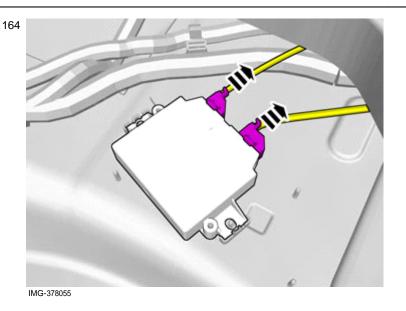


Disconnect the connector, if applicable.

Attach the connector to the wiring harness.

Use: , Electrical tape

The connector is not to be used.



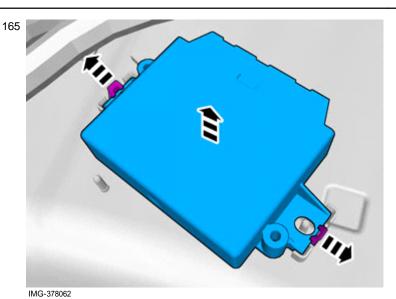
Disconnect the connectors.

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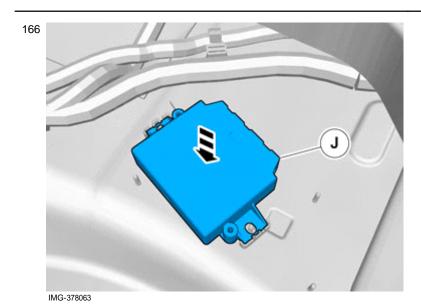
Parking assistance, pilot- 31408458 - V1.2



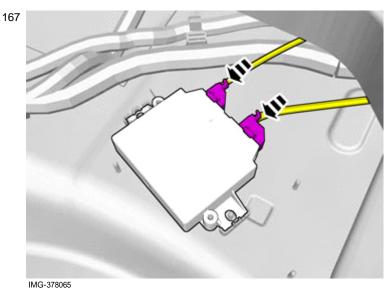
Volvo Car Corporation Gothenburg, Sweden



The part is not to be reused.



Install component that comes with the accessory kit.

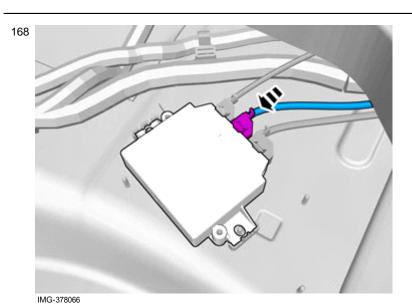


Connect the connectors.

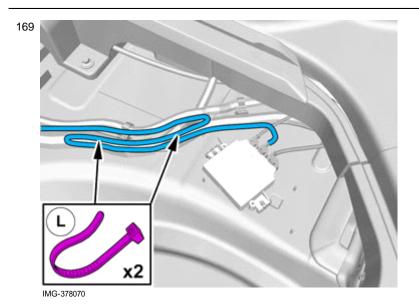
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Connect the prerouted cable.



Note!

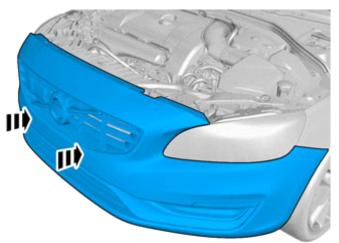
Extra cable length must be secured using cable ties.

All vehicles



Volvo Car Corporation Gothenburg, Sweden

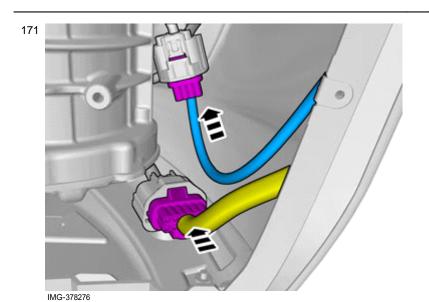
170



Place the Bumper Cover in position for installation.

IMG-378609

#### Left hand drive vehicles



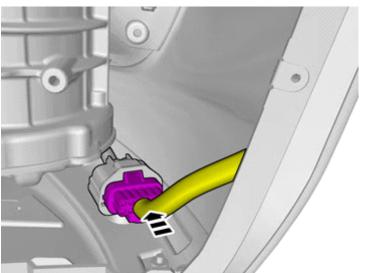
Connect the connectors.

Right-hand drive vehicles



Volvo Car Corporation Gothenburg, Sweden

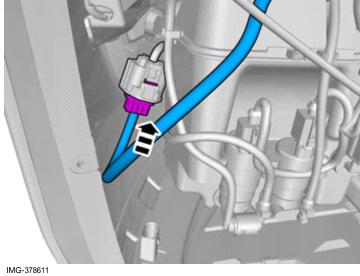
172



Connect the connector.

IMG-378280

173

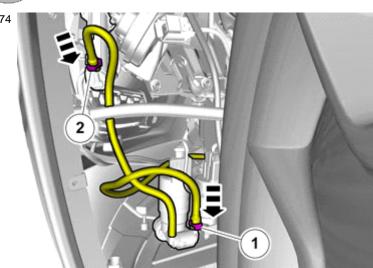


Connect the connector.

Vehicles with headlamp washers



Volvo Car Corporation Gothenburg, Sweden



Reinstall the removed parts in reverse order.

#### All vehicles

175

Reinstall the bumper.

IMG-378609



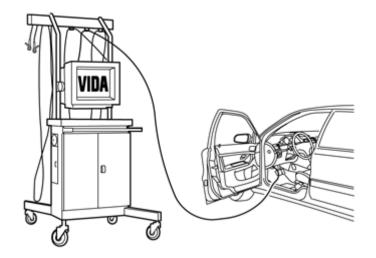
Volvo Car Corporation Gothenburg, Sweden

176

Reinstall the removed parts in reverse order.

IMG-377070





Download software (application) for the accessory's function according to the service information in VIDA.