


The present document was valid at the time of print. A later version may be available online

WM 970919 Removing and installing main wire harness

Tools

Designation	Type	Number	Description	
Disassembly tool, universal	Commercially available tool	Nr.21		

Technical values

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Fastening nut M6, main wire harness at left dashboard bracket		Tightening torque	3.5 Nm (2.5 ftlb.)		
Fastening screw M6x16, holder for relay carrier to dashboard bracket		Tightening torque	3.5 Nm (2.5 ftlb.)		
Fastening nut M6, ground straps to dashboard bracket		Tightening torque	9 Nm (6.5 ftlb.)		
Fastening nut M6, ground straps to body		Tightening torque	9 Nm (6.5 ftlb.)		
Fastening nut M6, ground straps to body		Tightening torque	9 Nm (6.5 ftlb.)		
Fastening nut M6, ground straps to body		Tightening torque	9 Nm (6.5 ftlb.)		
Fastening screws for support	-2-	Tightening torque	7.2 Nm (5.5 ftlb.)		
Fastening screw, seat belt to body	-4-	Tightening torque	50 Nm (37 ftlb.)		
Fastening nuts M6, battery retaining bracket to body		Tightening torque	10 Nm (7.5 ftlb.)		
Fastening screw M6, wheel sensor connector socket to wheel carrier		Tightening torque	10 Nm (7.5 ftlb.)		
Fastening nut M6, ground straps to body		Tightening torque	9 Nm (6.5 ftlb.)		

Preliminary work

Preliminary work

1. Remove battery. → *270619 Removing and installing battery - section on "Removing"*
2. Remove plenum panel cover. → *852219 Removing and installing cover - section on "Removing"*
3. Remove CD changer. → *916019 Removing and installing CD changer - section on "Removing"*
4. Remove navigation unit with retaining bracket. → *911219 Removing and installing navigation unit - section on "Removing"*
5. Remove loudspeaker amplifier. → *914419 Removing and installing loudspeaker amplifier - section on "Removing"*
6. Remove luggage compartment trim panels → *700519 Removing and installing trim panel for front luggage compartment - section on "Removing"*
7. Remove front-end control unit. → *944919 Removing and installing front-end control unit - section on "Removing"*
8. Remove front wheel housing liner on left and right. → *505619 Removing and installing front wheel housing liner - section on "Removing"*
9. Remove front cover. → *519219 Removing and installing front cover - section on "Removing"*
10. Remove tank for windscreen washer system. → *926019 Removing and installing tank for windscreen washer system - section on "Removing"*
11. Remove dashboard. → *701819 Removing and installing dashboard - section on "Removing"*
12. Remove heating/fresh-air unit. → *851519 Removing and installing heating/fresh-air unit - section on "Removing"*
13. Remove front seat at left and right. → *720119 Removing and installing front seat - section on "Removing"*
14. Remove left and right scuff plate. → *680519 Removing and installing inner door sill trim - section on "Removing"*
15. Remove rear side trim panel at left and right. → *707519 Removing and installing rear side trim panel - section on "Removing"*
16. Loosen fuse box. → *978409 Loosening and securing fuse box - section on "Loosening"*
17. Remove B+ line from power distributor to transmission connection point. → *974519 Installing and removing wire harness for starter battery - section on "Removing"*
18. Remove relay carrier 1. → *978319 Removing and installing relay carrier 1 - section on "Removing"*
19. Remove vehicle electrical system control unit. → *971019 Removing and installing vehicle electrical system control unit - section on "Removing"*
20. Remove operator control unit for garage door opener. → *967819 Removing and installing operator control*

unit for garage door opener - section on "Removing"

21. Remove sunroof motor. → *601419 Removing and installing sunroof motor - section on "Removing"*
22. Loosen front headliner in windscreen area. → *708419 Removing and installing headliner - section on "Removing"*



Information

Only in the cabriolet.

23. Remove front headliner. → *708319 Removing and installing front headliner - section on "Removing"*

Removing main wire harness

Removing main wire harness

NOTICE

Incorrect handling of main wire harness

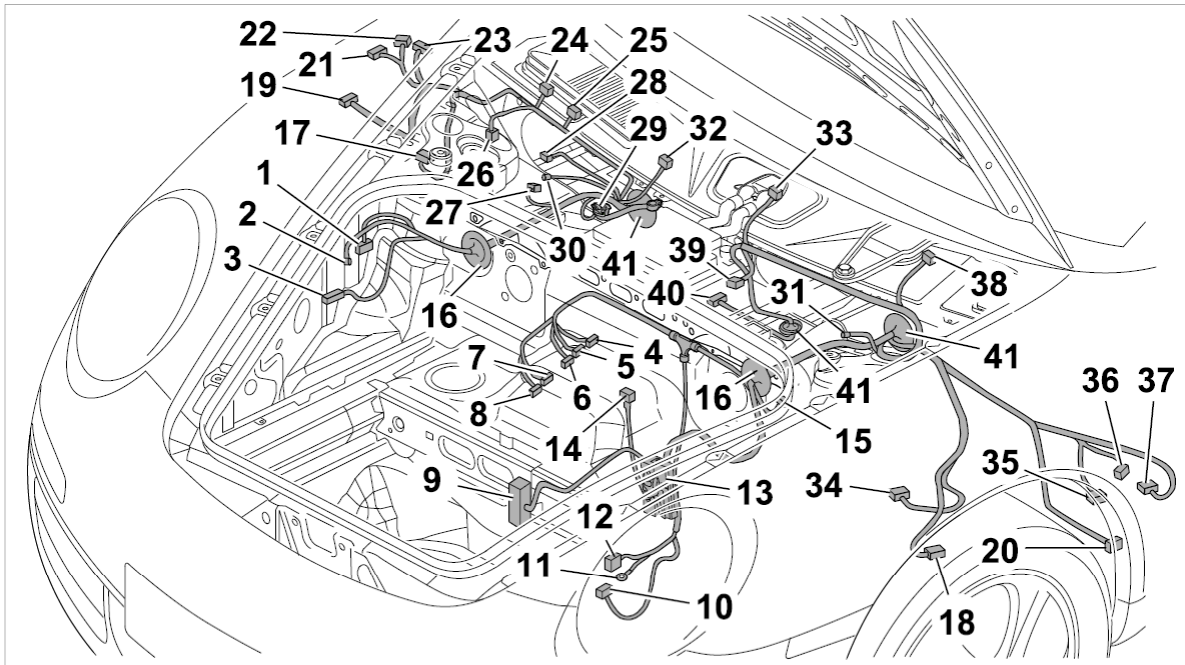
- **Risk of damage to lines**

- The main wire harness contains all airbag lines, antenna lines and optical waveguides.
- The main wire harness must not be separated and is always replaced as a complete wire harness when carrying out extensive repairs.
- If individual lines are damaged, shut off these lines and install new lines. Lay the new lines along the main wire harness and secure them to the main wire harness.



Information

Depending on the equipment I No., the installation positions of the audio components in the front luggage compartment differ.

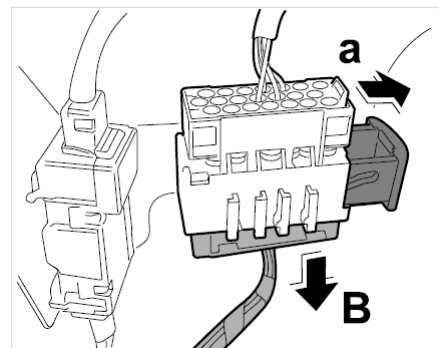


Overview of connectors for front main wire harness, shown on the 911

- 1** - Plug connection between main wire harness and front-end wire harness right
- 2** - Fuse box for fan
- 3** - Connector for front-end control unit
- 4–6** - Connector for navigation unit
- 7–8** - Connector for CD changer
- 9** - Connector for loudspeaker amplifier
- 10** - Connector for luggage compartment light
- 11** - Ground point
- 12** - Plug connection between main wire harness and front-end wire harness left
- 13** - Connector for hydraulic unit
- 14** - Connector for brake fluid sender
- 15** - Connector for tyre pressure monitoring system control unit
- 16** - Grommet
- 17–18** - Plug connection for ABS wire harness, front left and right
- 19–20** - Connector for tyre pressure monitoring system antenna, left and right

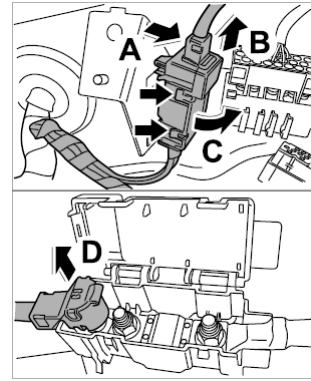
- 21 - Connector for filler flap switching element
- 22 - Connector for tank filler neck
- 23 - Connector for rod antenna
- 24 - Connector for GPS antenna
- 25 - Connector for radio antenna
- 26 - Connector for vertical sensor
- 27 - Connector for pressure switch
- 28 - Connector for alarm siren
- 29 - B+ line to power distributor
- 30–31 - Plug connection for PASM, front left and right
- 32–33 - Connector for windscreen washer system spray nozzle, left and right
- 34 - Connector for headlight beam adjustment angle sensor
- 35 - Connector for fluid level indicator sender
- 36 - Connector for windscreen washer system pump
- 37 - Connector for headlight washer pump
- 38 - Connector for wiper motor
- 39 - Connector for alarm horn
- 40 - Connector for fuel level sensor
- 41 - Grommet

1. Disconnect plug connection between main wire harness and front-apron wire harness, right -1- .



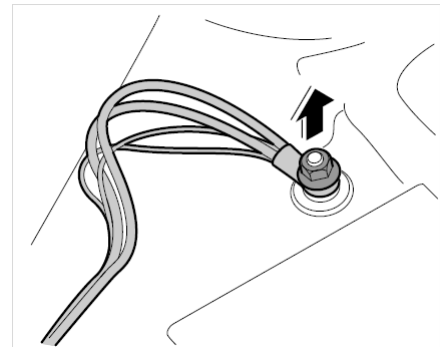
Disconnecting plug connection between front-end wire harness and main wire harness, right

- 1.1. Release plug connection between front-apron wire harness and main wire harness, right -**arrow a**- and disconnect -**arrow B**- .
- 1.2. Turn socket 90° clockwise and remove.
2. Pull off connector on fuse box for fan -2- .



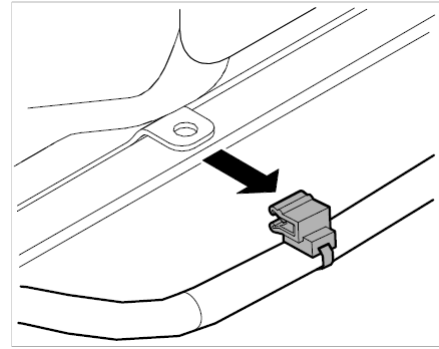
Pulling off connector on fuse box for fan

- 2.1. Unclip fuse box for fan **-arrow A-** and lift up and off **-arrow B-** .
- 2.2. Release lid **-arrows-** and open **-arrow C-** .
- 2.3. Pull off connector on fuse box for fan **-arrow D-** .
3. Loosen left ground point **-11-** .



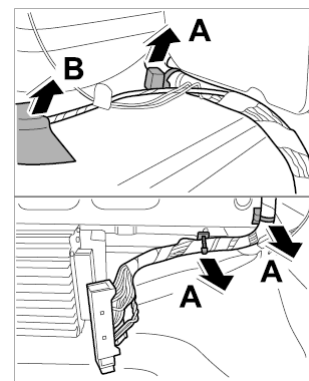
Loosening ground point

- 3.1. Screw off fastening nut and remove ground straps.
4. Release plug connection between main wire harness and front-apron wire harness, left **-12-** and disconnect. Unclip connector socket.
5. Release connector on hydraulic unit **-13-** and pull it off. → 453019 *Removing and installing hydraulic unit - "Removing" section*
6. Release connector on brake fluid sender **-14-** and pull it off.
7. Release and pull off connector on TPM control unit **-15-** . → 443419 *Removing and installing TPM control unit - section on "Removing"*
8. Unclip wire harness for front apron control unit **-arrow-** .



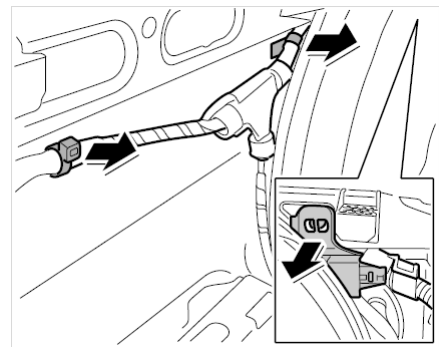
Unclipping wire harness

9. Unclip wire harness to loudspeaker booster **-arrows A-** and remove adhesive tape **-arrow B-** .



Unclipping wire harness to loudspeaker amplifier

10. Unclip wire harness to CD changer/navigation unit **-arrows-** .



Unclipping wire harness to CD changer/navigation unit

11. Remove grommets **-16-** on left and right.
12. Pull through main wire harness in direction of plenum panel.
13. Disconnect and release front left and right ABS wire harness **-17 and 18-** . → 976555 *Replacing ABS wire harness - "Removing" section*

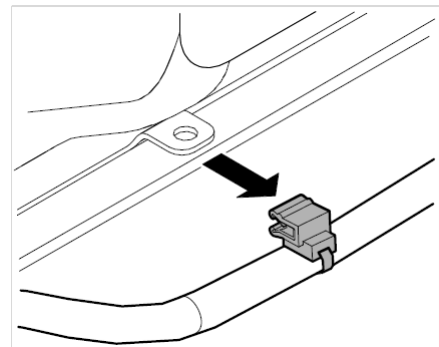
- 13.1. Release and disconnect plug connection for wheel sensor at left and right.
- 13.2. Unscrew fastening screw of connector socket.
- 13.3. Release rear wire harness.
14. Release and pull off connectors on front TPM antennas **-19 and 20-** on left and right.
→ *443819 Removing and installing TPM antenna - "Removing" section*
15. Release and pull off connector of switching element for filler flap **-21-** . → *553819 Removing and installing switching element for filler flap - "Removing" section*
16. Pull off connector from tank filler neck **-22-** . → *200719 Removing and installing filler neck - "Removing" section*



Information

Only in the cabriolet.

17. Release connector on rod antenna **-23-** and pull it off.
18. Unclip wire harness on end plate under windscreen at the three retaining clips **-arrow-** .



Unclipping wire harness

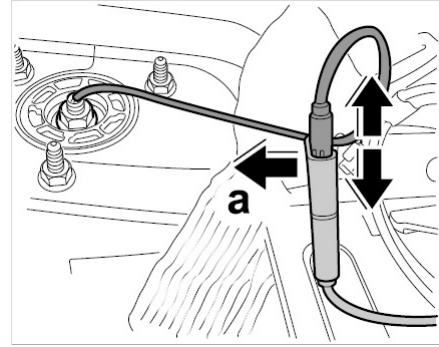
19. Release connector on GPS antenna **-24-** and pull it off. → *911319 Removing and installing GPS antenna - "Removing" section*
20. Release connector on radio antenna **-25-** and pull it off. → *914719 Removing and installing radio antenna - "Removing" section*
21. Release connector for vertical sensor **-26-** and pull it off.
22. Release connector for pressure switch **-27-** and pull it off. → *878319 Removing and installing pressure switch - "Removing" section*



Information

Only for vehicles with I number 536

23. Release connector for alarm siren **-28-** and pull it off. → *966519 Removing and installing alarm siren - "Removing" section*
24. Release and pull off B+ line **-29-** from power distributor. → *978919 Removing and installing power distributor - "Removing" section*
25. Release plug connections for PASM, front left and right **-30 and 31-** (**-arrow a-**) and disconnect.



Disconnecting PASM plug connection

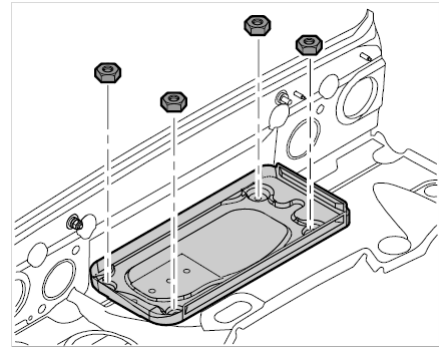
26. Release and pull off connectors for windscreen-washer spray nozzles, left and right **-32 and 33-** .
→ *926619 Removing and installing spray nozzle for windscreen washer system - "Removing" section*



Information

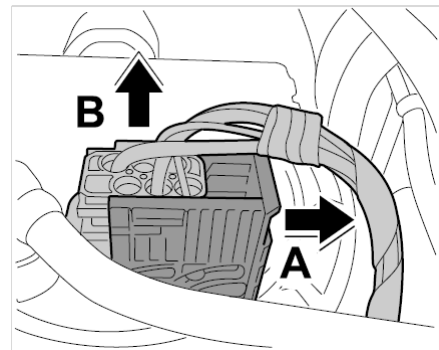
Only for vehicles with TPM.

27. Release and pull off connector on front angle sensor for headlight beam adjustment **-34-** .
→ *947819 Removing and installing front angle sensor for headlight beam adjustment - "Removing" section*
28. Release and pull off connector on wiper motor **-38-** . → *921519 Removing and installing wiper motor - "Removing" section*
29. Release and pull off connector on alarm horn **-39-** . → *966519 Removing and installing alarm siren - "Removing" section*
30. Undo the four fastening nuts on the battery retaining bracket and remove the battery retaining bracket.



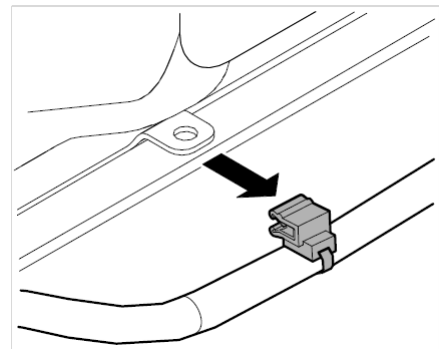
Removing and installing battery retaining bracket

31. Release connector on fuel level sender **-40-** (**-arrow A-**) and pull it off **-arrow B-** .



Pulling off tank connector

32. Unclip wire harness on end plate under windscreen at the two retaining clips **-arrow-** .

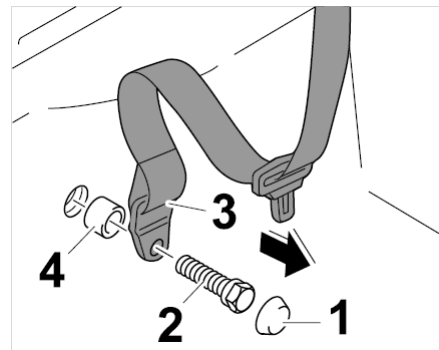


Unclipping wire harness

33. Remove grommets **-41-** in centre, and on left and right.
34. Pull through main wire harness in direction of interior.

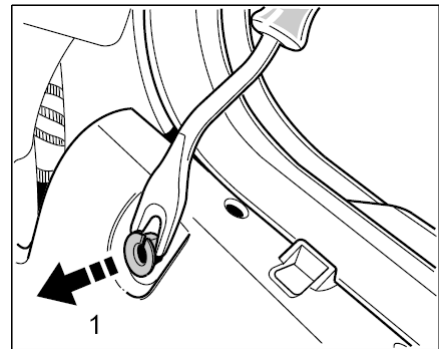
Exposing main wire harness in passenger compartment

1. Loosen seat belt mount at left and right.



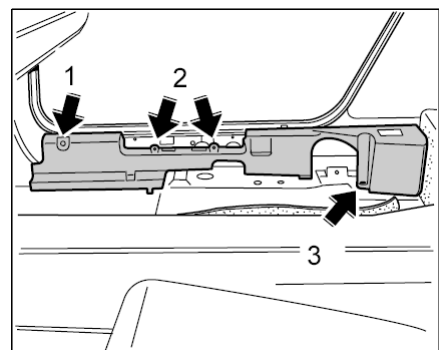
Undoing seat belt and fitting

- 1.1. Press off cap **-1-** with a screwdriver and unscrew the fastening screw **-2-** . Remove seat belt with fitting **-3-** and spacer sleeve **-4-** .
2. Disengage floor covering at the support and lay it in the vehicle interior.
3. Remove left and right support.



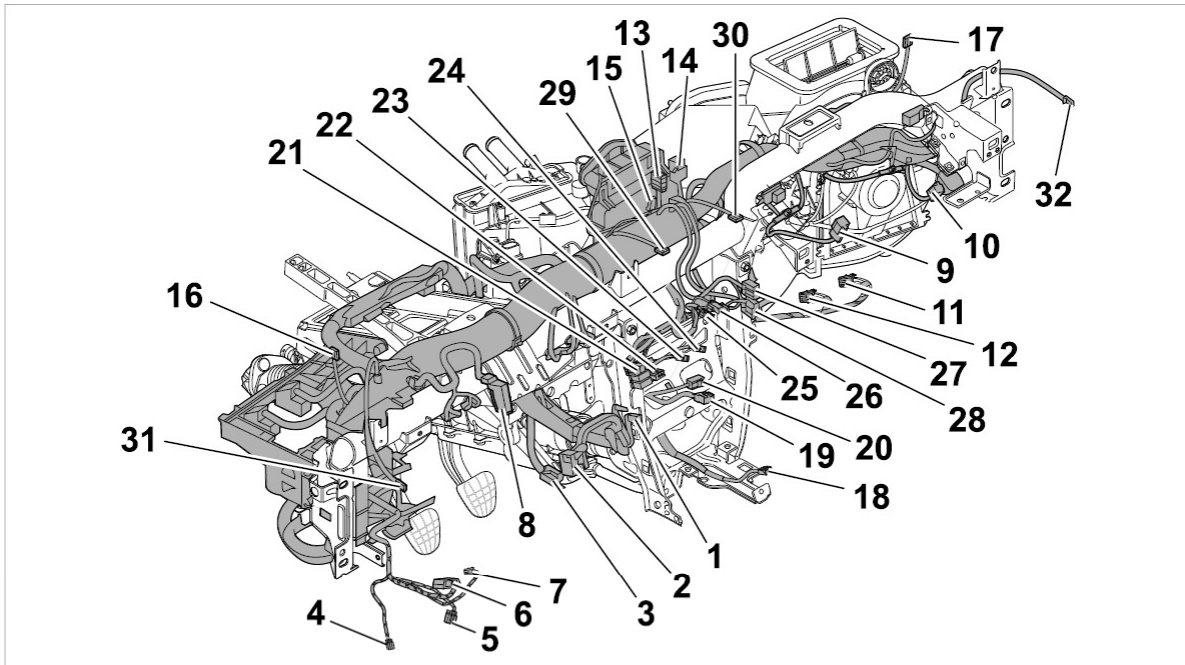
Unlocking locating peg using the removal tool

- 3.1. Unlock locating peg **-1-** of the support using the commercially available disassembly tool **Disassembly tool, universal Nr.21**.
- 3.2. Unscrew fastening screws **-2-** and nuts **-3-** and carefully pull the support up and out of the retaining points.



Unscrewing fastening screws

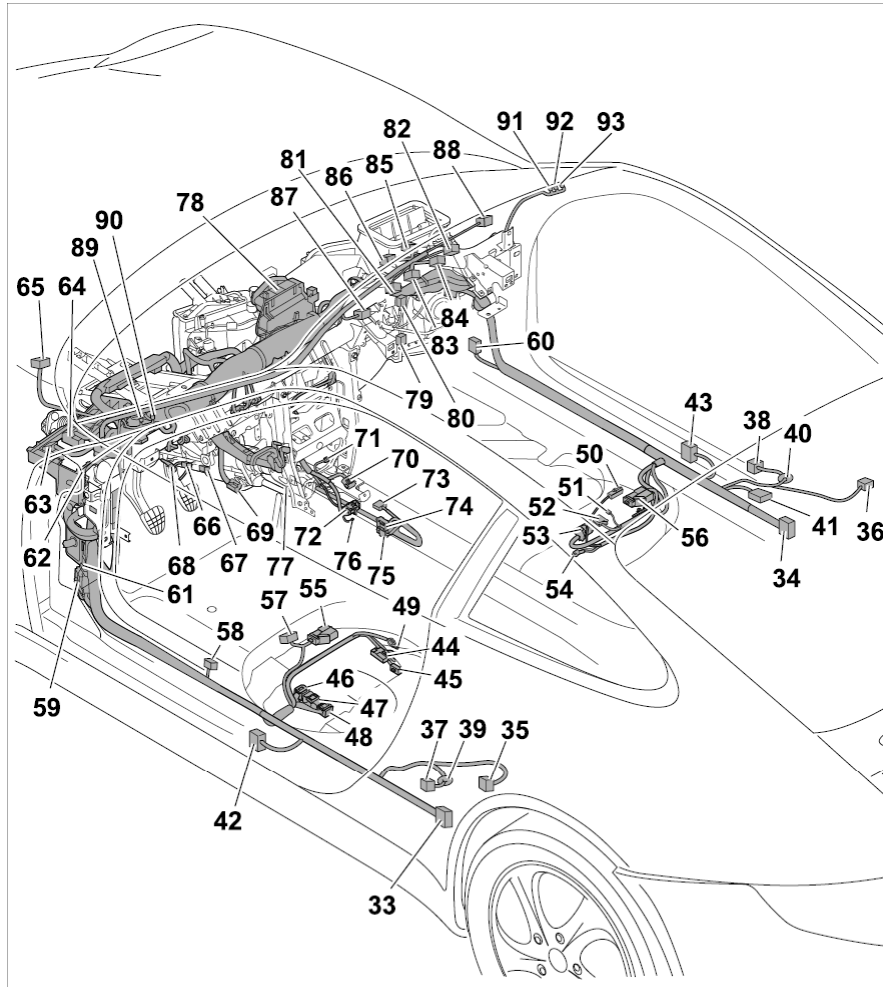
Removing main wire harness in passenger compartment



Overview of main wire harness for dashboard

- 1-3** - Connector for steering column switch
- 4** - Connector for main light switch
- 5** - Connector for ignition lock
- 6** - Connector for diagnostic box
- 7** - Connector for floor light left
- 8** - Connector for instrument cluster
- 9-10** - Connector for passenger's airbag, stage 1 and stage 2
- 11** - Connector for floor light right
- 12** - Plug connection for glove compartment
- 13** - Connector for stopwatch
- 14** - Connector for sun sensor
- 15** - Connector for centre speaker
- 16-17** - Connector for loudspeaker, left and right
- 18** - Connector for switch console
- 19-20** - Connector for climate control

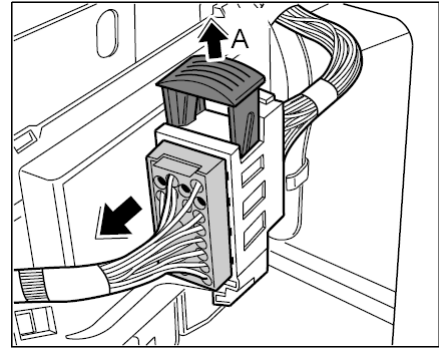
- 21-26** - Connector for PCM
- 27** - Connector for central locking
- 28** - Connector for hazard warning light switch
- 29-30** - Plug connection for illumination of centre nozzle
- 31-32** - Plug connection for illumination of left and right nozzle



Overview of connectors for main wire harness in passenger compartment

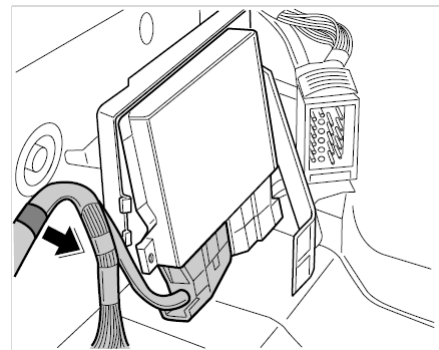
- 33-34** - Plug connection between main wire harness and rear end wire harness, left and right
- 35-36** - Connector for loudspeaker, rear left and right
- 37-38** - Connector for seat-belt tensioner, front left and right
- 39-40** - Rubber sleeve
- 41** - Tiptronic control module connector
- 42-43** - Connector for airbag sensor, centre left and right
- 44-45** - Connector for ParkAssist control unit
- 46-48** - Connector for rear end convenience systems control unit
- 49** - Ground point under driver's seat
- 50-53** - Connector for telephone control unit

- 54** - Ground point under passenger's seat
 - 55-56** - Connector for front seat, left and right
 - 57** - Connector for driver's seat with memory
 - 58** - Connector for door sill button module
 - 59-60** - Plug connection between main wire harness and wire harness for door, left and right
 - 61** - Fusebox
 - 62** - Relay carrier
 - 63-64** - Connector for vehicle electrical system control unit
 - 65** - Connector for gateway control unit
 - 66-67** - Connector for KESSY/PAS control unit
 - 68** - Connector for stop light switch
 - 69** - Connector for pedal sensor
 - 70** - Plug connection between main wire harness and wire harness for centre console
 - 71** - Plug connection for telephone handset
 - 72** - Connector for airbag triggering unit
 - 73** - Connector for parking-brake lever contact switch
 - 74-75** - Tiptronic position switch
 - 76** - Ground point under unit carrier
 - 77** - Connector for tilt sensor control unit
 - 78** - Power distributor
 - 79-80** - Plug connection between main wire harness and wire harness for heater/air-conditioning unit
 - 81-82** - Connector for garage door opener control unit
 - 83** - Connector for sunroof switch
 - 84** - Connector for interior light
 - 85** - Connector for sunroof motor
 - 86** - Plug connection for rain sensor
 - 87-88** - Plug connection for make-up mirror, left and right
 - 89-93** - Connector for antenna unit, left and right
1. Release plug connection between main wire harness and rear-end wire harness, left and right
-33 und 34- -Arrow A- and disconnect.



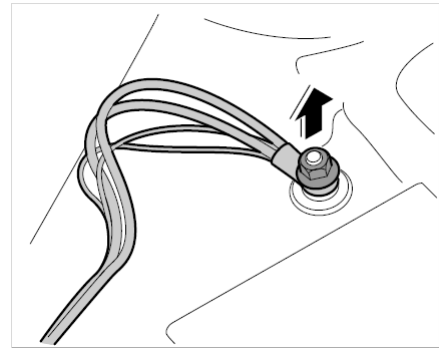
Releasing plug connection between main wire harness and rear-end wire harness

2. Pull off connector for seat-belt tensioner, front left and right **-37 und 38-** and remove rubber sleeves **-39 und 40-** . → *691319 Removing and installing front three-point seat belt with tensioner - chapter on "Removing"*
3. Release and pull off connector on Tiptronic control module **-41-** . → *373019 Removing and installing transmission control module - chapter on "Removing"*
- 3.1. Unclip wire harness for Tiptronic control module.



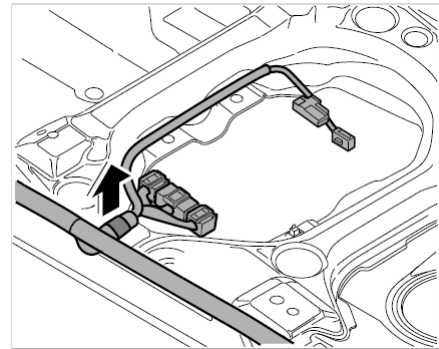
Unclipping wire harness for Tiptronic control module

4. Release and pull off connector for airbag sensor, centre left and right **-42 and 43-** . → *695119 Removing and installing airbag sensor - chapter on "Removing"*
5. Release and pull off connector for ParkAssist control unit **-44 and 45-** . → *917419 Removing and installing ParkAssist control unit - chapter on "Removing"*
6. Release and pull off connector for rear end convenience systems control unit **-46 to 48-** .
→ *578919 Removing and installing control unit for rear end convenience systems - chapter on "Removing"*.
7. Loosen ground point under the driver's seat **-49-** .



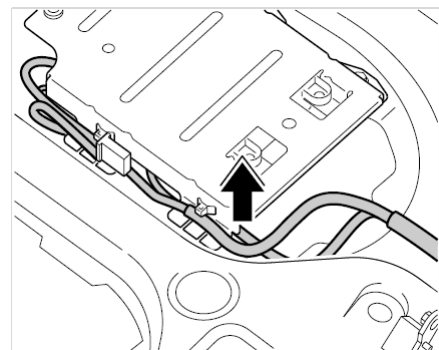
Loosening ground point

- 7.1. Screw off fastening nut and remove ground straps.
8. Unclip ground point under driver's seat.



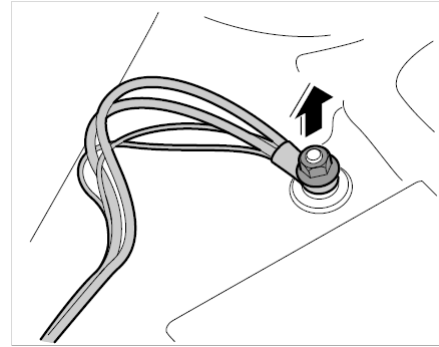
Unclipping ground point under driver's seat

9. Release and remove connectors for telephone control unit **-50 to 53-** . → 919019 *Removing and installing telephone control unit - chapter on "Removing"*
- 9.1. Unclip wire harness for telephone control unit.



Unclipping wire harness for telephone control unit

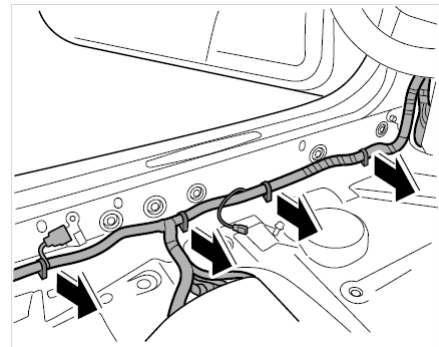
10. Loosen ground point under the passenger's seat **-54-** .



Loosening ground point

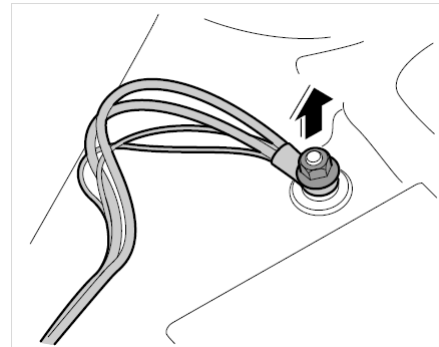
10.1. Screw off fastening nut and remove ground straps.

11. Unclip wire harness at door sill.



Unclipping wire harness at door sill

12. Release and disconnect plug connection between main wire harness and wire harness for door, left and right **-59 and 60-** . → *973219 Removing and installing wire harness for door - chapter on "Disconnecting"*
13. Release and pull off connector for gateway control unit **-65-** . → *903519 Removing and installing gateway control unit - chapter on "Removing"*
14. Release and pull off connectors for KESSY/PAS control unit **-66 and 67-** . → *966619 Removing and installing KESSY control unit - chapter on "Removing"*
15. Release and pull off connector for stop light switch **-68-** . → *943619 Removing and installing stop light switch - chapter on "Removing"*.
16. Release and pull off connector for pedal sensor **-69-** . → *207819 Removing and installing pedal sensor - chapter on "Removing"*
17. Loosen ground point under the unit carrier **-76-** .

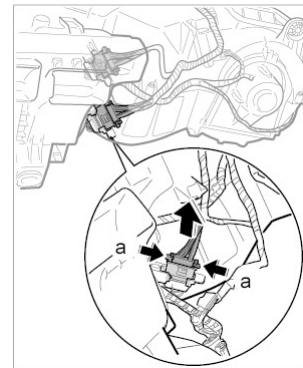


Loosening ground point

17.1. Screw off fastening nut and remove ground straps.

18. Release and pull off connector for tilt sensor control unit **-77-** . → 966319 *Tilt sensor control unit - chapter on "Removing"*

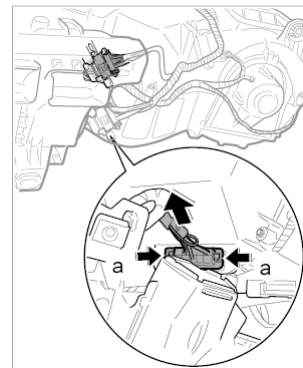
19. Disconnect plug connections between main wire harness and wire harness for heater/air-conditioning unit **-79 and 80-** .



Releasing electric plug connection

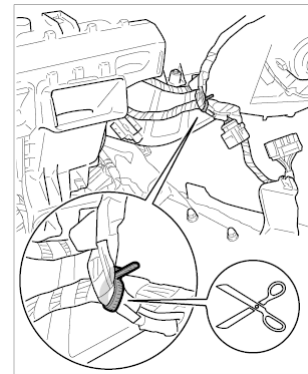
19.1. Release lower plug connection on heater/air-conditioning unit **-Arrows a-** and disconnect.

19.2. Release upper plug connection on heater/air-conditioning unit **-Arrows a-** and disconnect.



Releasing plug connection

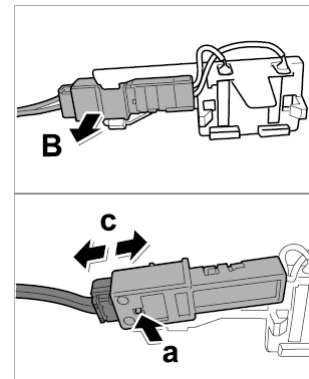
19.3. Cut tie-wraps (main wire harness to heater/air-conditioning unit wire harness) with side cutters. Remove main wire harness.



Cutting tie-wraps

20. Release and disconnect plug connection for rain sensor **-86-** . → 921219 *Removing and installing rain sensor - chapter on "Removing"*

21. Disconnect plug connection of make-up mirror, left and right **-87 and 88-** .

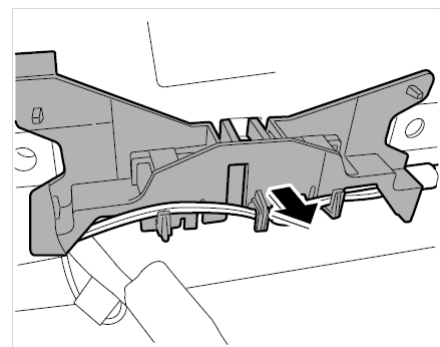


Disconnecting plug connection of make-up mirror

21.1. Unclip plug connection from console **-Arrow B-** .

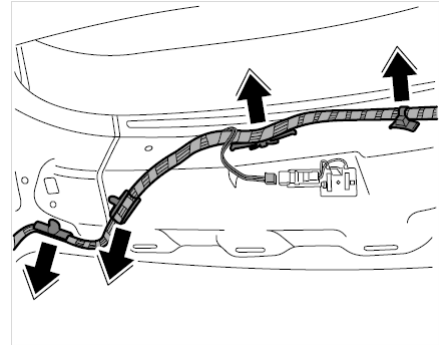
21.2. Release plug connection **-Arrow a-** and disconnect it **-Arrows C-** .

22. Unclip cable duct at front of roof frame.



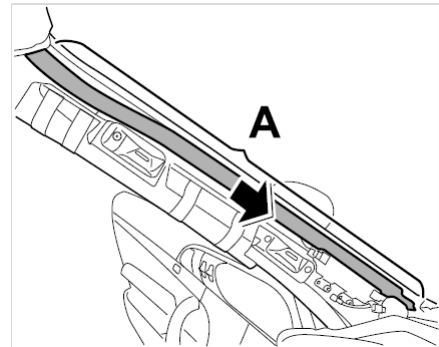
Unclipping cable duct at front of roof frame

23. Unclip main wire harness at front of roof frame.



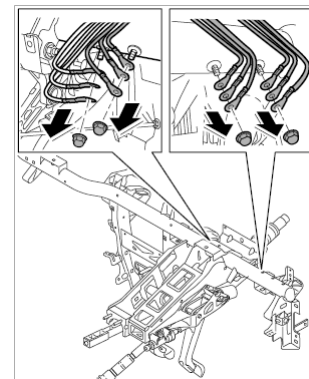
Unclipping main wire harness at front of roof frame

24. Remove main wire harness from A-pillar **-Area A-** .



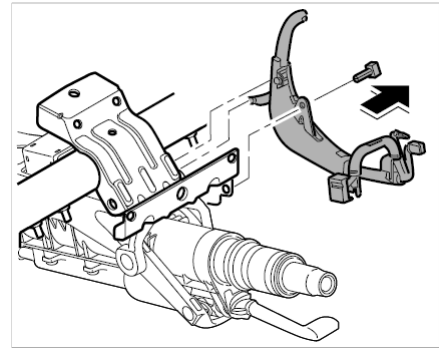
Removing main wire harness from A-pillar

25. Pull off connector for antenna amplifier, left and right **-89 bis 93-** . → 918419 *Removing and installing antenna amplifier - chapter on "Removing"*
26. Loosen ground points on dashboard bracket.



Loosening ground points on dashboard bracket

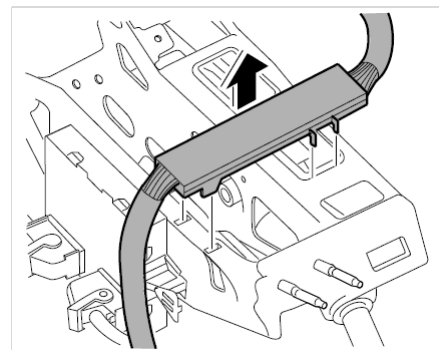
- 26.1. Unscrew fastening nuts and remove ground straps.
27. Unclip length compensation at the steering column.



Unclipping length compensation

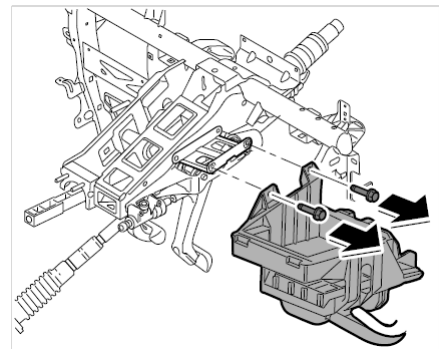
27.1. Remove expansion rivet and length compensation.

28. Unclip cable guide on dashboard bracket.



Unclipping cable guide

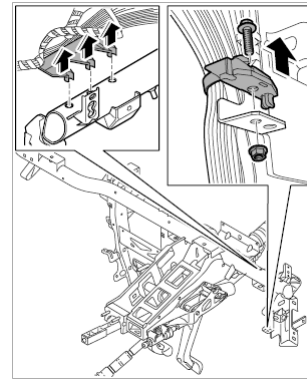
29. Loosen holder for relay carrier.



Loosening holder for relay carrier

29.1. Unscrew the two fastening screws and remove the relay carrier holder from the dashboard bracket.

30. Loosen main wire harness at left dashboard bracket.

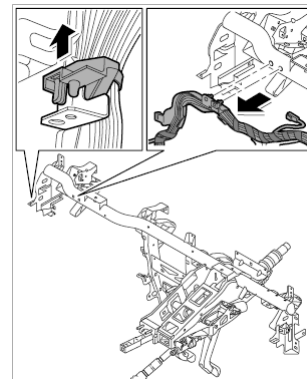


Loosening main wire harness at left dashboard bracket

30.1. Screw off fastening nut and remove fastening screw.

30.2. Unclip main wire harness on cable guide.

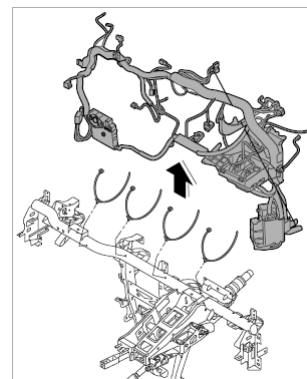
31. Loosen main wire harness at right dashboard bracket.



Loosening main wire harness at right dashboard bracket

31.1. Unclip main wire harness on both cable guides.

32. Loosen main wire harness at centre dashboard bracket.

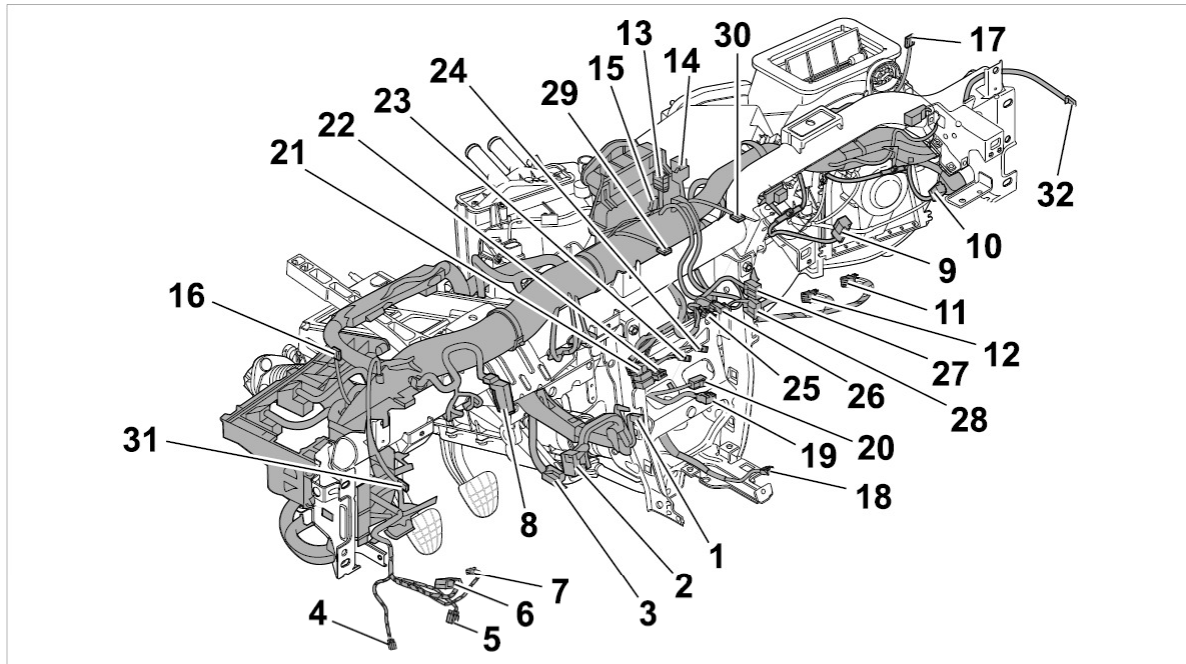


Loosening main wire harness at centre dashboard bracket

32.1. Undo the four tie-wraps and remove main wire harness.

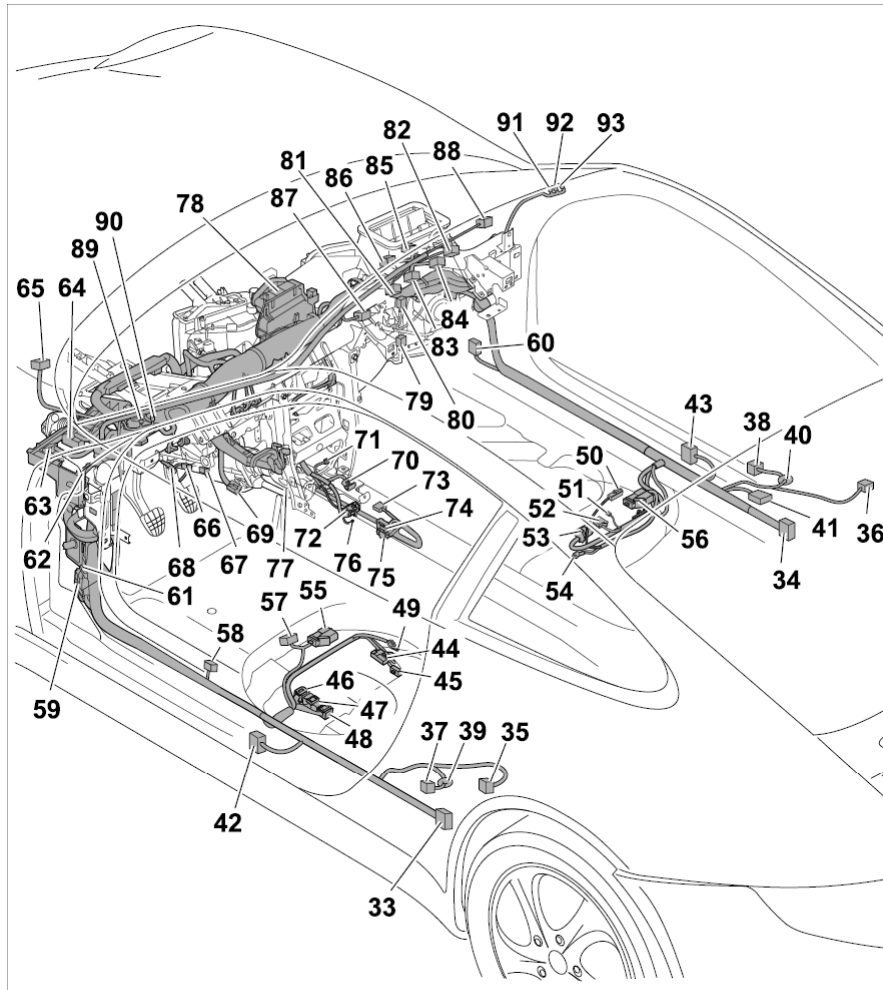
Installing main wire harness

Installing main wire harness in passenger compartment

*Overview of connectors for main wire harness in dashboard*

- 1–3** - Connector for steering column switch
- 4** - Connector for main light switch
- 5** - Connector for ignition lock
- 6** - Connector for diagnostic box
- 7** - Connector for footwell light, left
- 8** - Connector for instrument cluster
- 9–10** - Connector for passenger's airbag, stage 1 and stage 2
- 11** - Connector for footwell light, right
- 12** - Plug connection for glove box
- 13** - Connector for stopwatch
- 14** - Connector for sun sensor
- 15** - Connector for centre speaker
- 16–17** - Connector for loudspeaker, left and right

- 18** - Connector for switch console
- 19–20** - Connector for climate control
- 21–26** - Connector for PCM
- 27** - Connector for central locking
- 28** - Connector for hazard warning light switch
- 29–30** - Plug connection for illumination of centre nozzle
- 31–32** - Plug connection for illumination of left and right nozzle

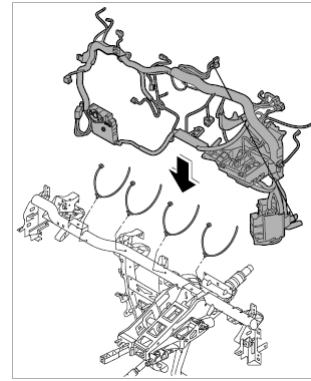


Overview of connectors for main wire harness in passenger compartment

- 33–34** - Plug connection between main wire harness and rear wire harness, left and right
- 35–36** - Connector for loudspeaker, rear left and right
- 37–38** - Connector for front seat-belt pretensioner, left and right
- 39–40** - Rubber sleeve
- 41** - Connector for Tiptronic control unit
- 42–43** - Connector for airbag sensor, centre left and right
- 44–45** - Connector for ParkAssist control unit
- 46–48** - Connector for control unit for rear convenience systems

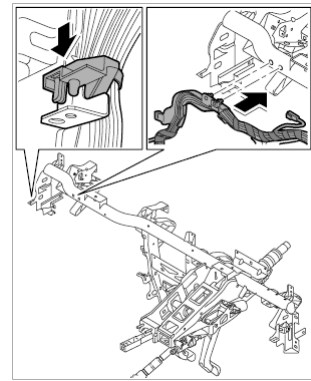
- 49** - Ground point under driver's seat
- 50–53** - Connector for telephone control unit
- 54** - Ground point under passenger's seat
- 55–56** - Connector for front seat, left and right
- 57** - Connector for driver's seat with memory
- 58** - Connector for door sill button module
- 59–60** - Plug connection between main wire harness and wire harness for door, left and right
- 61** - Fuse box
- 62** - Relay carrier
- 63–64** - Connector for vehicle electrical system control unit
- 65** - Connector for gateway control unit
- 66–67** - Connector for KESSY/PAS control unit
- 68** - Connector for brake light switch
- 69** - Connector for pedal sensor
- 70** - Plug connection between main wire harness and wire harness for centre console
- 71** - Plug connection for telephone handset
- 72** - Connector for airbag triggering unit
- 73** - Connector for parking-brake lever contact switch
- 74–75** - Tiptronic position switch
- 76** - Ground point under unit carrier
- 77** - Connector for tilt sensor control unit
- 78** - Power distributor
- 79–80** - Plug connection between main wire harness and wire harness for heater/air-conditioning unit
- 81–82** - Connector for garage door opener control unit
- 83** - Connector for sunroof switch
- 84** - Connector for interior light
- 85** - Connector for sunroof motor
- 86** - Plug connection for rain sensor
- 87–88** - Plug connection for make-up mirror, left and right
- 89–93** - Connector for antenna unit, left and right

1. Fasten main wire harness at centre dashboard bracket.



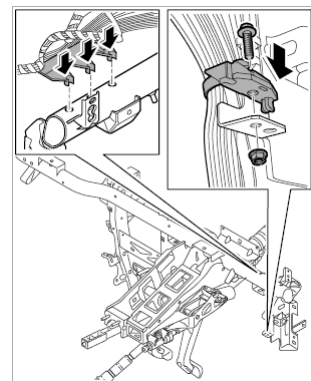
Fastening main wire harness at centre dashboard bracket

- 1.1. Lay main wire harness and fasten with four new tie-wraps .
2. Fasten main wire harness at right dashboard bracket.



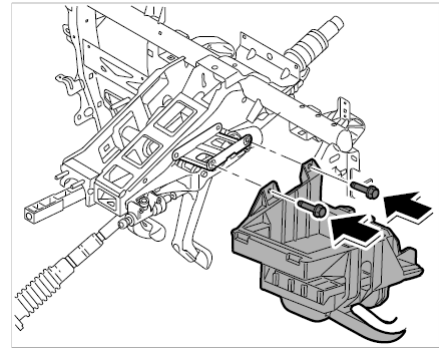
Fastening main wire harness at right dashboard bracket

- 2.1. Clip in main wire harness on both cable guides.
3. Fasten main wire harness at left dashboard bracket.



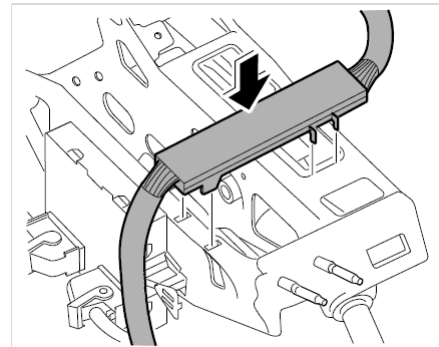
Fastening main wire harness at left dashboard bracket

- 3.1. Clip in main wire harness on cable guide.
- 3.2. Insert fastening screw and tighten fastening nut. → **Tightening torque: 3.5 Nm (2.5 ftlb.)**
4. Fasten holder for relay carrier.



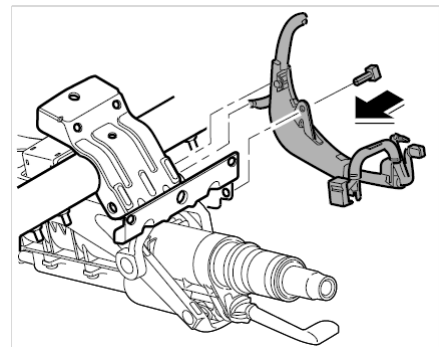
Fastening holder for relay carrier

- 4.1. Position holder for relay carrier and tighten with the two fastening screws to the dashboard bracket. → **Tightening torque: 3.5 Nm (2.5 ftlb.)**
5. Clip in cable guide on dashboard bracket.



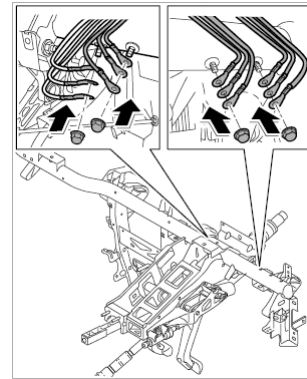
Clipping in cable guide

6. Clip in length compensation at the steering column.



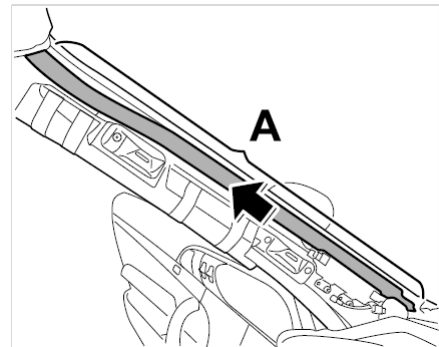
Clipping in length compensation

- 6.1. Position length compensation at the steering column and fasten with the expansion rivet.
7. Fasten ground points on dashboard bracket.



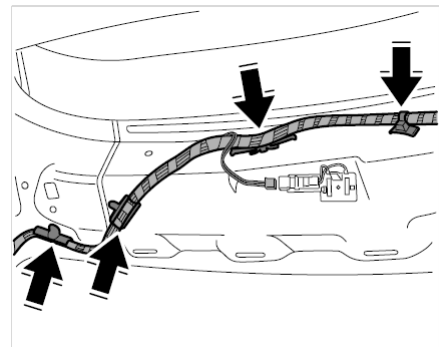
Fastening ground points on dashboard bracket

- 7.1. Fit ground straps and tighten with fastening nuts. → **Tightening torque: 9 Nm (6.5 ftlb.)**
8. Push on connector for antenna amplifier, left and right **-89 to 93-** . → 918419 *Removing and installing antenna amplifier - section on "Installing"*
9. Remove protective film of adhesive strip on main wire harness **-area A-** and affix main wire harness to A-pillar.



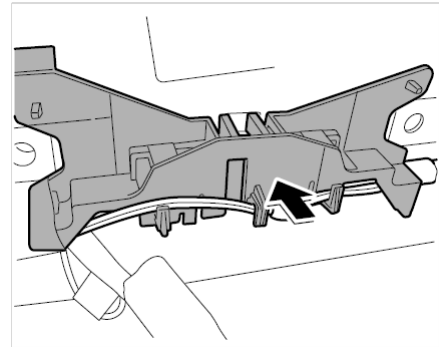
Affixing main wire harness to A-pillar

10. Clip in main wire harness at front of roof frame.



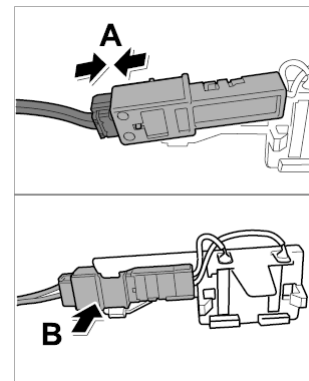
Clipping in main wire harness at front of roof frame

11. Clip in cable duct at front of roof frame.



Clipping in cable duct at front of roof frame

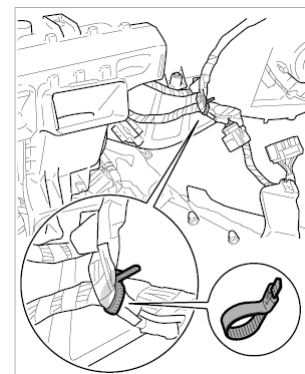
12. Connect plug connection of make-up mirror, left and right **-87 and 88-** .



Connecting plug connection of make-up mirror

- 12.1. Connect plug connection **-arrows A-** until it engages securely.
- 12.2. Clip plug connection into console **-arrow B-** .
13. Connect plug connection **-86-** until it engages securely. → 921219 *Removing and installing rain sensor - section on "Installing"*

14. Connect plug connections between main wire harness and wire harness for heater/air-conditioning unit **-79 and 80-** .



Fastening electric line

- 14.1. Lay main wire harness to heater/air-conditioning unit wire harness and fix with a tie-wrap.

- 14.2. Push in upper electric plug connection at heater/air-conditioning unit until it engages securely.



Connecting upper electric plug connection

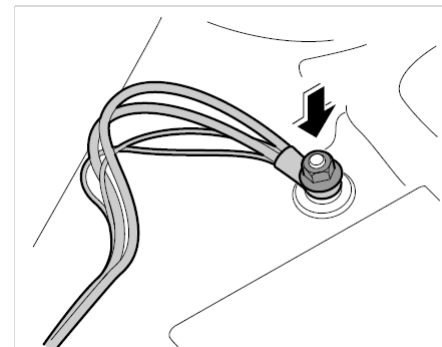
- 14.3. Push in lower electric plug connection at heater/air-conditioning unit until it is felt to engage.



Connecting lower electric plug connection

15. Push on connector for tilt sensor control unit **-77-** until it engages securely. → *966319 Tilt sensor control unit - section on "Removing"*

16. Fasten ground point under the unit carrier **-76-** .



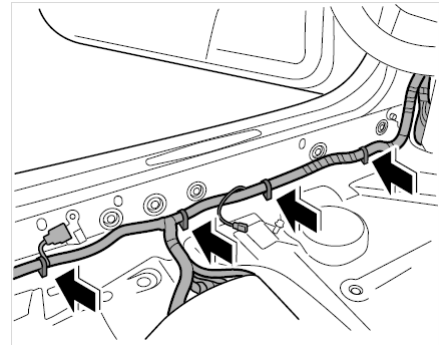
Securing ground point

- 16.1. Connect ground straps and tighten with the fastening nut. → **Tightening torque: 9 Nm (6.5 ftlb.)**

17. Push on connector for pedal sensor **-69-** until it engages securely. → *207819 Removing and installing pedal sensor - section on "Installing"*

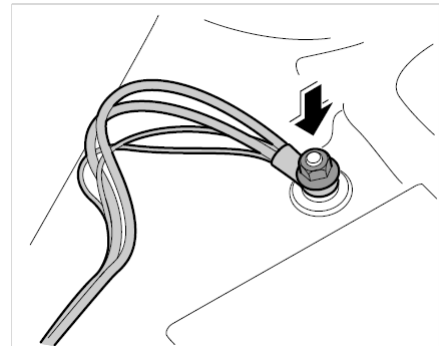
18. Push on connector for brake light switch **-68-** until it engages securely. → *943619 Removing and installing brake light switch - section on "Installing"*.

19. Push on connectors of KESSY/PAS control unit **-66 and 67-** until they engage securely. → *966619 Removing and installing KESSY control unit - section on "Installing"*
20. Push on connector on Gateway control unit **-65-** until it engages securely. → *903519 Removing and installing gateway control unit - section on "Installing"*
21. Push together plug connection between main wire harness and wire harness for door at the left and right **-59 und 60-** until they engage securely. → *973219 Removing and installing wire harness for door - section on "Locking"*
22. Clip in wire harness at door sill.



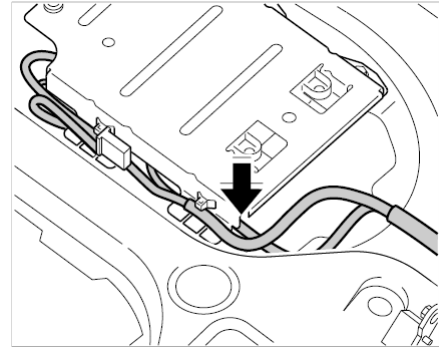
Clipping in wire harness at door sill

23. Fasten ground point under the passenger seat **-54-** .



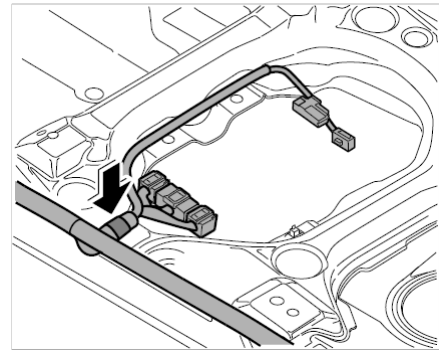
Securing ground point

- 23.1. Connect ground straps and tighten with the fastening nut. → **Tightening torque: 9 Nm (6.5 ftlb.)**
24. Push on connectors for telephone control unit **-50 to 53-** until they engage securely. → *919019 Removing and installing control unit for telephone - section on "Installing"*
- 24.1. Clip in wire harness for telephone control unit.



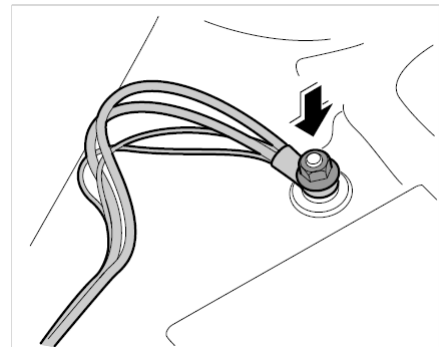
Clipping in wire harness for telephone control unit

25. Clip in wire harness under driver's seat.



Clipping in wire harness under driver's seat

26. Fasten ground point under the driver's seat **-49-** .



Securing ground point

- 26.1. Connect ground straps and tighten with the fastening nut. → **Tightening torque: 9 Nm (6.5 ftlb.)**

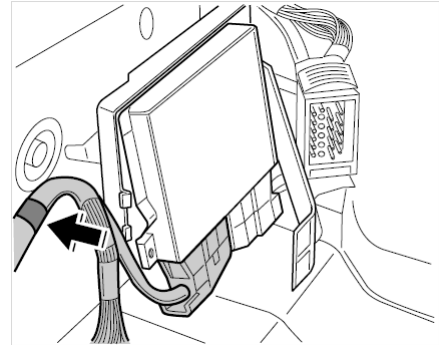
27. Push on connectors on control unit for rear convenience systems **-46 to 48-** until they engage securely.
→ 578919 *Removing and installing control unit for rear convenience systems - section on "Installing"*.

28. Push on connectors on ParkAssist control unit **-44 and 45-** until they engage securely.
→ 917419 *Removing and installing ParkAssist control unit - section on "Installing"*

29. Push on connectors for centre airbag sensor at the left and right **-42 and 43-** until they engage securely.

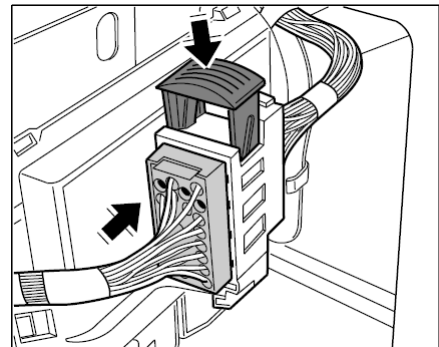
→ 695119 Removing and installing airbag sensor - section on "Installing"

30. Push on connector on Tiptronic control unit **-41-** until it engages securely and lock it. → 373019 Removing and installing transmission control unit - section on "Installing"
- 30.1. Clip in wire harness for Tiptronic control unit.



Clipping in wire harness for Tiptronic control unit

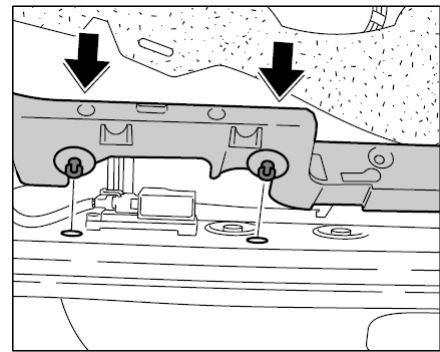
31. Fit rubber sleeves **-39 and 40-** and push on connector for front seat-belt pretensioners at the left and right **-37 and 38-**. → 691119 Removing and installing front three-point belt - section on "Installing"
32. Connect plug connection between main wire harness and rear wire harness at the left and right **-33 and 34-** and lock it.



Connecting plug connection for main wire harness to rear wire harness

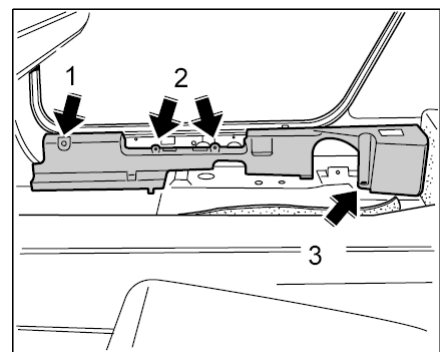
Completing the vehicle

1. Install left and right support.



Engaging the support

- 1.1. Position the support and engage in lower side member.
- 1.2. Press in the locating peg -1- of the support and check it is seated correctly.



Securing the support

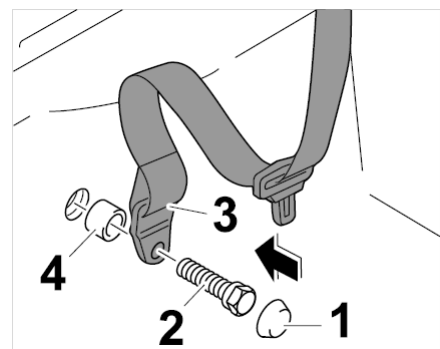
- 1.3. Tighten the fastening nut -3- and fastening screws -2- . → **Tightening torque: 7.2 Nm (5.5 ftlb.)**
- 2. Lay the floor covering over the support and engage.



Information

Ensure that belt strap can run properly!

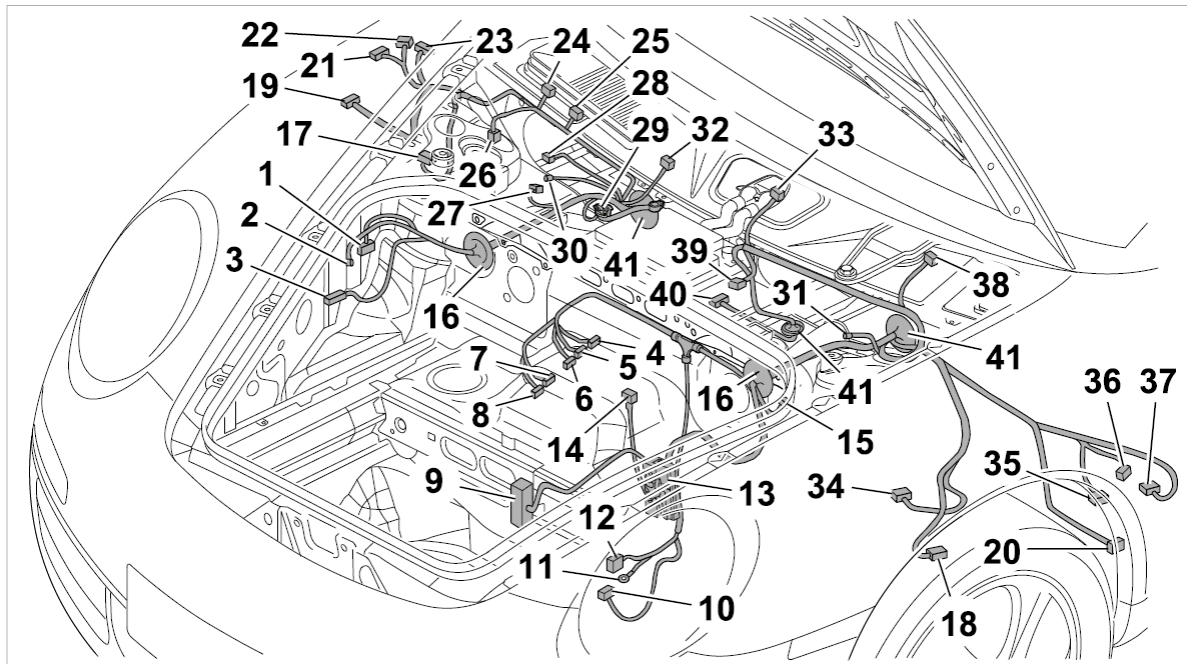
- 3. Fasten seat belt mount at left and right.



Installing seat belt and fitting

- 3.1. Tighten fastening screw -2- , seat belt with fitting -3- and spacer sleeve -4- on inner lower side member. → **Tightening torque: 50 Nm (37 ftlb.)**

3.2. Press in -1- cap.

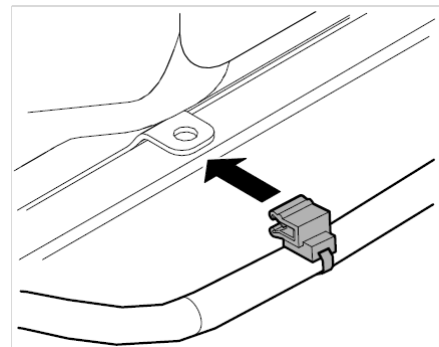
Installing front main wire harness

Overview of connectors for front main wire harness, shown on the 911

- 1 - Plug connection between main wire harness and front-end wire harness right
- 2 - Fuse box for fan
- 3 - Connector for front-end control unit
- 4-6 - Connector for navigation unit
- 7-8 - Connector for CD changer
- 9 - Connector for loudspeaker amplifier
- 10 - Connector for luggage compartment light
- 11 - Ground point
- 12 - Plug connection between main wire harness and front-end wire harness left
- 13 - Connector for hydraulic unit
- 14 - Connector for brake fluid sender
- 15 - Connector for tyre pressure monitoring system control unit

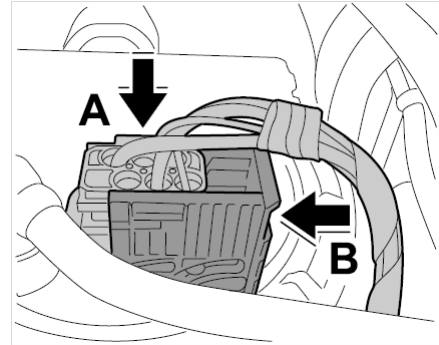
- 16 - Grommet
- 17-18 - Plug connection for ABS wire harness, front left and right
- 19-20 - Connector for tyre pressure monitoring system antenna, left and right
- 21 - Connector for filler flap switching element
- 22 - Connector for tank filler neck
- 23 - Connector for rod antenna
- 24 - Connector for GPS antenna
- 25 - Connector for radio antenna
- 26 - Connector for vertical sensor
- 27 - Connector for pressure switch
- 28 - Connector for alarm siren
- 29 - B+ line to power distributor
- 30-31 - Plug connection for PASM, front left and right
- 32-33 - Connector for windscreen washer system spray nozzle, left and right
- 34 - Connector for headlight beam adjustment angle sensor
- 35 - Connector for fluid level indicator sender
- 36 - Connector for windscreen washer system pump
- 37 - Connector for headlight washer pump
- 38 - Connector for wiper motor
- 39 - Connector for alarm horn
- 40 - Connector for fuel level sensor
- 41 - Grommet

1. Push through main wire harness in direction of plenum panel.
2. Fit grommets **-41-** centre, left and right.
3. Clip in wire harness on end plate under windscreen at the two retaining clips **-arrow-** .

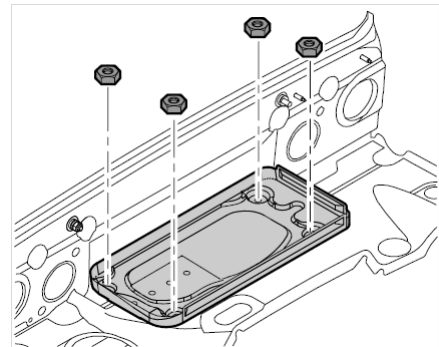


Clipping in wire harness

4. Push on connector for fuel level sender **-40-** **-Arrow A-** and lock **-Arrow B-** .

*Pushing on tank connector*

5. Position battery retaining bracket and secure with the four fastening nuts. → **Tightening torque: 10 Nm (7.5 ftlb.)**

*Removing and installing battery retaining bracket*

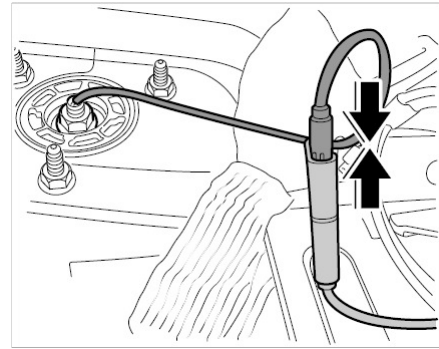
6. Push on connector for alarm horn **-39-** until it is felt to engage. → *966519 Removing and installing alarm siren - chapter on "Installing"*
7. Push on connector for wiper motor **-38-** until it is felt to engage. → *921519 Removing and installing wiper motor - chapter on "Installing"*

**Information**

Only for vehicles with TPM.

8. Push connector onto front angle sensor for headlight beam adjustment **-34-** until it is felt to engage. → *947819 Removing and installing front angle sensor for headlight beam adjustment - chapter on "Installing"*
9. Push on connectors for windscreen washer system spray nozzle, left and right **-32 and 33-** until they are felt to engage. → *926619 Removing and installing spray nozzle for windscreen washer system - chapter on "Installing"*

10. Connect plug connections for PASM, front left and right **-30 und 31-** until they are felt to engage.



Connecting PASM plug connection

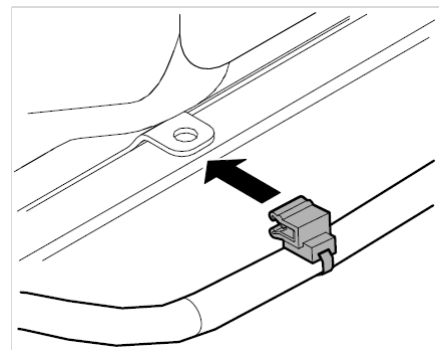
11. Push B+ line **-29-** onto mounting point at the power distributor as far as the stop. Check B+ line sits firmly. → 978919 Removing and installing power distributor - chapter on "Installing"



Information

Only for vehicles with I number 536

12. Push on connector for alarm siren **-28-** until it is felt to engage. → 966519 Removing and installing alarm siren - chapter on "Installing"
13. Push on connector for pressure switch **-27-** until it is felt to engage. → 878319 Removing and installing pressure switch - chapter on "Installing"
14. Push on connector of vertical sensor **-26-** until it is felt to engage.
15. Push on connector for radio antenna **-25-** until it is felt to engage. → 914719 Removing and installing radio antenna - chapter on "Installing"
16. Push on connector for GPS antenna **-24-** until it is felt to engage. → 914719 Removing and installing radio antenna - chapter on "Installing"
17. Clip in wire harness for end plate under windscreen at the three retaining clips **-arrow-** .



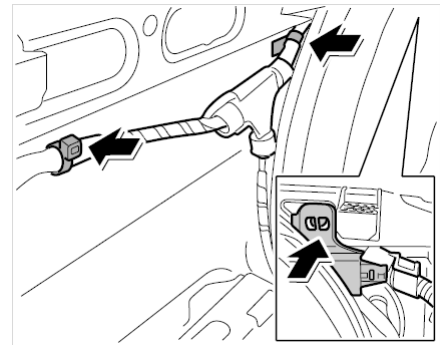
Clipping in wire harness



Information

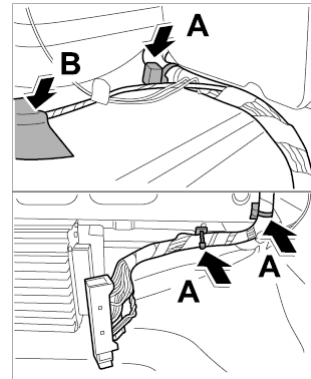
Only in the cabriolet.

18. Push in connector for rod antenna **-23-** until it is felt to engage.
19. Push on connector for tank filler neck **-22-** . → *200719 Removing and installing filler neck - chapter on "Installing"*
20. Push on connector for filler flap switching element **-21-** until it is felt to engage. → *553819 Removing and installing switching element for filler flap - chapter on "Installing"*
21. Push on connectors of front antenna for tyre pressure monitoring system **-19 and 20-** at left and right until they are felt to engage. → *443819 Removing and installing antenna for tyre pressure monitoring system - chapter on "Installing"*
22. Lay and connect ABS wire harness, front left and right **-17 and 18-** . → *976555 Replacing ABS wire harness - chapter on "Installing"*
 - 22.1. Laying ABS wire harness
 - 22.2. Tighten fastening screw of connector socket. → **Tightening torque: 10 Nm (7.5 ftlb.)**
 - 22.3. Lock the plug connection securely.
23. Push through main wire harness in direction of luggage compartment.
24. Fit grommets **-16-** left and right.
25. Clip in wire harness to CD changer/navigation unit **-arrows-** .



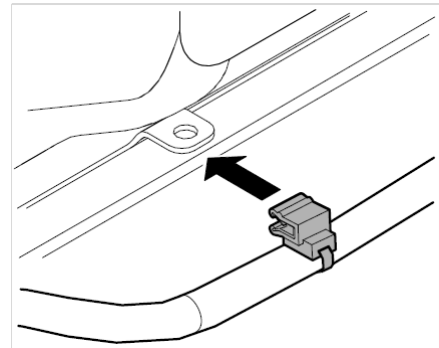
Clipping in wire harness to CD changer/navigation unit.

26. Clip in wire harness to loudspeaker amplifier **-Arrows A-** and fix with new adhesive tape **-Arrow B-** .



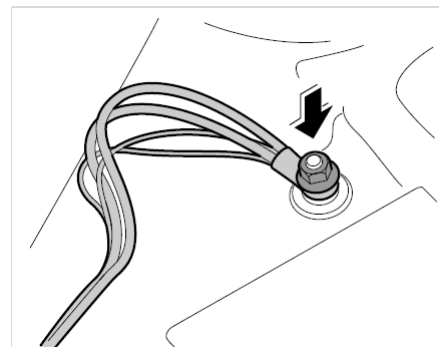
Clipping in wire harness to loudspeaker amplifier

27. Clip in wire harness for front end control unit **-arrow-** .



Clipping in wire harness

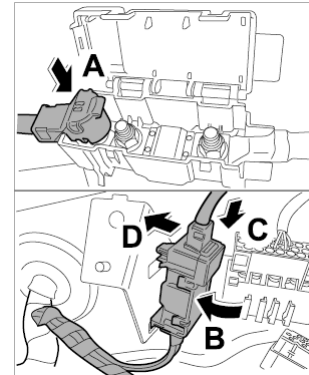
28. Push on connector for tyre pressure monitoring system control unit **-15-** until it is felt to engage. → 443419 Removing and installing control unit for tyre pressure monitoring system - chapter on "Installing"
29. Push on connector for brake fluid sender **-14-** until it is felt to engage.
30. Push on connector for hydraulic unit **-13-** and lock it. → 453019 Removing and installing hydraulic unit - chapter on "Installing"
31. Push together plug connection between main wire harness and front-end wire harness, left **-12-** until it engages securely. Clip in connector socket.
32. Secure ground point left **-11-** .



Securing ground point

32.1. Connect ground straps and tighten fastening nut. → **Tightening torque: 9 Nm (6.5 ftlb.)**

33. Push connector onto fuse box for fan **-2-** .



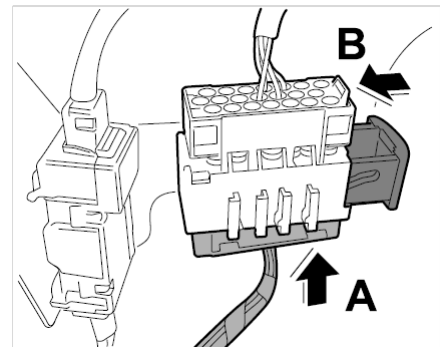
Pushing connector onto fuse box for fan

33.1. Push connector onto fuse box for fan **-Arrow A-** .

33.2. Close lid **-Arrow B-** until it is felt to engage.

33.3. Position bottom of fuse box for fan on the clip **-Arrow C-** and clip in **-Arrow D-** .

34. Push together plug connection between main wire harness and front end wire harness, right **-1-** .



Pushing together plug connection between front end wire harness and main wire harness, right

34.1. Insert connector socket in the holder and turn anti-clockwise 90°.

34.2. Push together plug connection between front-end wire harness and main wire-harness right **-Arrow A-** and lock **-Arrow B-** .

Subsequent work

Subsequent work



Information

Only in the cabriolet.

1. Install front headliner. → *708319 Removing and installing front headliner - section on "Installing"*
2. Secure front headliner in windscreen area. → *708419 Removing and installing headliner - section on "Installing"*
3. Install sunroof motor. → *601419 Removing and installing sunroof motor - section on "Installing"*
4. Install operator control unit for garage door opener. → *967819 Removing and installing operator control unit for garage door opener - section on "Installing"*
5. Install vehicle electrical system control unit. → *971019 Removing and installing vehicle electrical system control unit - section on "Installing"*
6. Install relay carrier 1. → *978319 Removing and installing relay carrier 1 - section on "Installing"*
7. Install B+ line from power distributor to transmission connection point. → *974519 Installing and removing wire harness for starter battery - section on "Installing"*
8. Secure fuse box. → *978409 Loosening and securing fuse box - section on "Securing"*
9. Install rear side trim panel at left and right. → *707519 Removing and installing rear side trim panel - section on "Installing"*
10. Install left and right scuff plate. → *680519 Removing and installing inner door sill trim - section on "Installing"*
11. Install front seat at left and right. → *720119 Removing and installing front seat - section on "Installing"*
12. Install heating/fresh-air unit. → *851519 Removing and installing heating/fresh-air unit - section on "Installing"*
13. Install dashboard. → *701819 Removing and installing dashboard - section on "Installing"*
14. Install tank for windscreen washer system. → *926019 Removing and installing tank for windscreen washer system - section on "Installing"*
15. Install front cover. → *519219 Removing and installing front cover - section on "Installing"*
16. Install front wheel housing liner on left and right. → *505619 Removing and installing front wheel housing liner - section on "Installing"*
17. Install front-end control unit. → *944919 Removing and installing front-end control unit - section on "Installing"*
18. Install trim panels for luggage compartment. → *700519 Removing and installing trim panel for front luggage compartment - section on "Installing"*
19. Install loudspeaker amplifier. → *914419 Removing and installing loudspeaker amplifier - section on*

"Installing"

20. Install navigation unit with retaining frame. → *911219 Removing and installing navigation unit - section on "Installing"*
 21. Install CD changer. → *916019 Removing and installing CD changer - section on "Installing"*
 22. Install plenum panel cover. → *852219 Removing and installing cover - section on "Installing"*
 23. Install battery. → *270619 Removing and installing battery - section on "Installing"*
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997110, 997111, 997120, 997121, 997310, 997311, 997320, 997321, 997410, 997411, 997420, 997421, 997430, 997431, 997510, 997511, 997520, 997521, 997610, 997611, 997620, 997621, 997630, 997631, 997810, 997811, 997840, 997841, 997850, 997851, 997140, 997141, 997450, 997451, 997650, 997651, 997720, 997721, 997820, 997830, 997860, 997861, 997150, 997151, 997160, 997161, 997170, 997350, 997351, 997360, 997361, 997370, 997460, 997461, 997560, 997561, 997660, 997661

Model year as of 2005

C00, C02, C05, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C32, C33, C34, C35, C36, C37, C38, C39, C45, C46, C98, C99