Parts and Accessories.

Installation instructions



Park Distance Control (PDC) Retrofit Kit BMW 3 Series Saloon (E90) BMW 3 Series Touring (E91)

These installation instructions are not valid for cars with the aerodynamics package or M sport package SA 337

Retrofit kit No. 66 20 0 399 629 Park Distance Control retrofit kit, front

66 20 0 399 633 Park Distance Control retrofit kit, rear

Installation time

The installation time for the rear PDC retrofit and the front PDC upgrade/retrofit is **approx. 3.5 hours** each.

If the rear PDC retrofit and the front PDC upgrade are installed at the same time, the installation time is **approx. 5.5 hours**. This may vary depending on the condition of the car and the equipment in it.

The installation time given does not include time needed for programming/encoding.

The total costs for the programming time should be taken into account when calculating retrofitting costs (reimbursement through warranty is not permissible).

Important information

These installation instructions are primarily designed for use within the BMW dealership organisation and by authorised BMW service companies.

In any event, the target group for these installation instructions is specialist personnel trained on BMW cars with the appropriate specialist knowledge.

All work must be completed using the latest BMW repair manuals, circuit diagrams, servicing manuals and work instructions in a rational order using the prescribed tools (special tools) and observing current health and safety regulations.

In the event of any installation or function problems, restrict the troubleshooting session to about 0.5 hours for mechanical work or 1 hour for electrical work.

In order to reduce costs and avoid any additional expense, send a query immediately to the Technical Parts Support via the Aftersales Assistance Portal (ASAP).

Specify the following information:

- Chassis number
- Part number of the retrofit kit
- A precise description of the problem
- Any work already carried out.

Do not archive the hard copy of these installation instructions since daily updates are made by ASAP!

Pictograms



Denotes instructions that draw your attention to special features.

Denotes the end of the instruction or other text.

Installation information

Ensure that the cables and/or lines are not kinked or damaged as you install them in the car. The costs thereby incurred will not be reimbursed by BMW AG.

Additional cables/lines that you install must be secured with cable ties.

If the specified PIN chambers are already used, bridges, double crimps or twin-lead terminals must be used.

After the installation work, the retrofit must be programmed / coded via the **Retrofit** or **Conversion** path.

All pictures show LHD cars; proceed accordingly on RHD cars.

Ordering instructions

Check colour versions and technical equipment. The following parts are not supplied in the kits and must be ordered separately (see EPC for part number and details).

For rear PDC retrofit

- Control unit **D**
- Sensors M

For front PDC upgrade/retrofit

- Control unit T
- Sensors X
- Trim AC
- Centre console switch centre AD

List of special equipment

The following special equipment must be taken into consideration when installing the retrofit kit:

SA 235	Towing hitch
SA 507	Park Distance Control (PDC), rear
SA 606	Business navigation system
SA 609	Professional navigation system
SA 663	BMW Professional radio

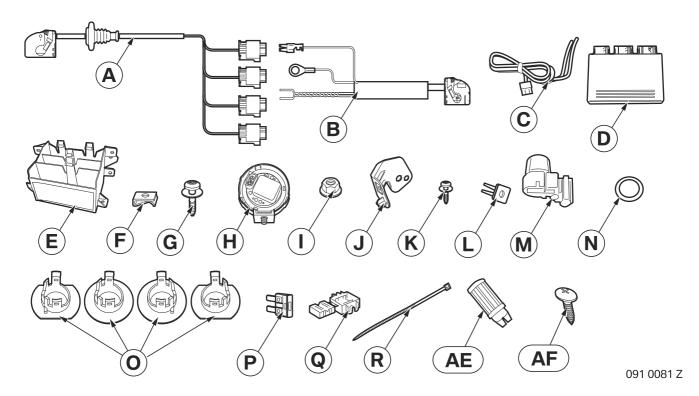
Special tools required

00 9 317, Installation wedges

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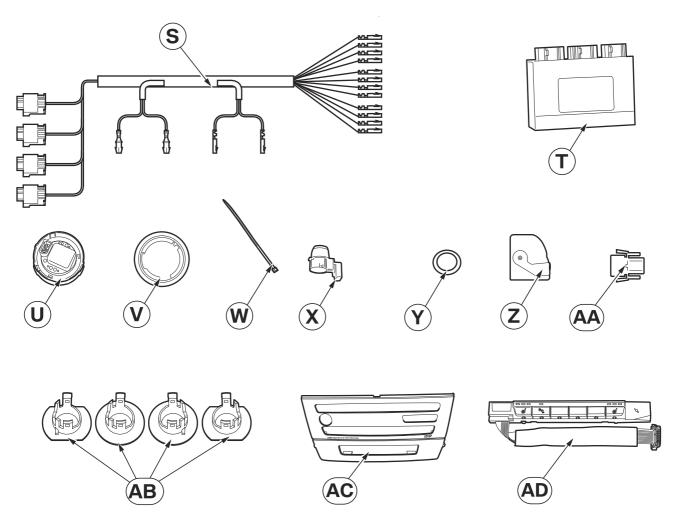
1. Rear PDC retrofit parts list



Legend

- A Rear PDC wiring harness
- B Supply cable
- C Signal generator cable (for cars built before 09/07 without SA 606/609/663 only)
- D Control unit (not supplied in the retrofit kit)
- E Module holder
- F Speed nut (3x)
- G Self-tapping screw 4.8 x 15 mm (3x)
- H Rear signal generator (for cars built before 09/07 without SA 606/609/663 only)
- Hexagonal nut M6 (for cars built before 09/07 without SA 606/609/663 only)
- J Holder (for E90 cars built before 09/07 without SA 606/609/663 only)
- K Fillister head self-tapping screw 4.8 x 14 mm (for E90 cars built before 09/07 without SA 606/609/663 only)
- L Expanding nut (for E90 cars built before 09/07 without SA 606/609/663 only)
- M Sensor (4x, not supplied in the retrofit kit)
- N Disconnecting ring (4x)
- O Sensor holder (4x, different coding)
- P Fusible link 5 A
- Q Miniature connector (4x)
- R Cable tie 200 x 3.6 mm (20x)
- AE Speed nut (for E91 cars only)
- AF Self-tapping screw 4.8 x 32 mm (for E91 cars only)

2. Front PDC upgrade/retrofit parts list



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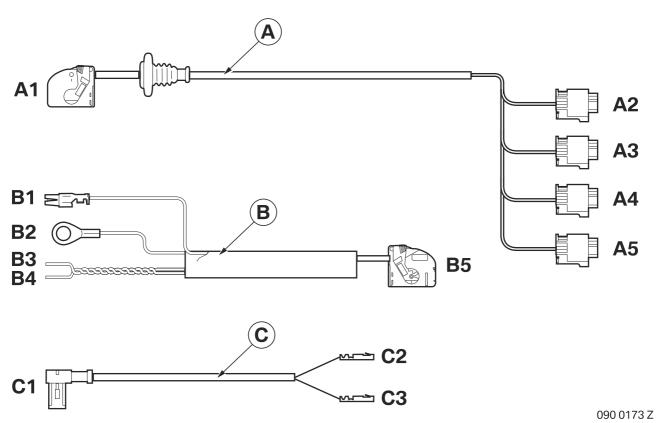
Legend

- S Front PDC wiring harness
- T Control unit (not supplied in the upgrade kit)
- U Front signal generator (for cars built before 09/07 without SA 606/609/663 only)
- V Adapter (for cars built before 09/07 without SA 606/609/663 only)
- W Cable tie 200 x 3.6 mm (20x)
- X Sensor (4x, not supplied in the upgrade kit)
- Y Disconnecting ring (4x)
- Z SW 18-pin socket casing
- AA SW 2-pin socket casing (for cars built before 09/07 without SA 606/609/663 only)
- AB Sensor holder (4x, different coding)
- AC Trim (cars without SA 403 only, not supplied with the retrofit kit)
- AD Centre console switch centre (not supplied in the retrofit kit)

3. Preparatory work

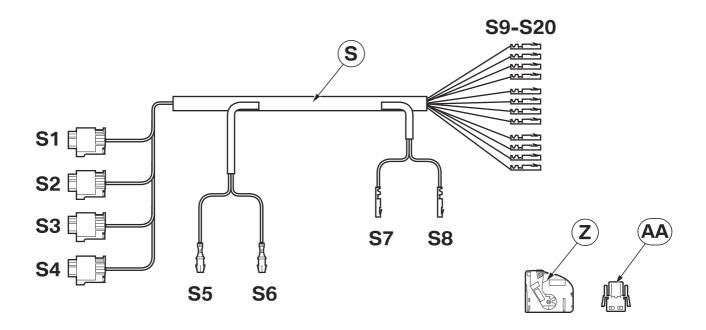
	TIS No.
Conduct a brief test	
Disconnect negative pole of battery	12 00
The following components must be removed first of all	
Rear PDC retrofit	
Rear bumper trim	51 12 000
Luggage compartment floor trim	51 47 101
Right luggage compartment wheel arch trim	51 47 161
Roof pillar trim (C pillar) rear right (for E90 cars built before 09/07 without SA 606/609/663 only)	51 43 251
Trim for rear window shelf (for E90 cars built before 09/07 without SA 606/609/663 only)	51 46 000
Backrest side section, rear seat, right	52 26 008
Door sill strip, rear (interior) right	51 47 030
Door sill strip, front (interior) right	51 47 000
Side footwell trim on right A pillar	51 43 070
Trim at the bottom right of the dashboard	51 45 181
Glovebox	51 16 366
Front PDC upgrade/retrofit	
Front bumper trim	51 11 000
Trim at the bottom right of the dashboard	51 45 181
Pedal trim (for cars built before 09/07 without SA 606/609/663 only)	51 45 185
Side footwell trim on right A pillar	51 43 070
Heating/air-conditioning control	64 11 377
Switch centre, centre console	61 31 052/054
Door sill strip, front (interior) right	51 47 000
Door sill strip, rear (interior) right	51 47 030
Backrest side section, rear seat, right	52 26 008
Luggage compartment floor trim	51 47 101
Right luggage compartment wheel arch trim	51 47 161

4. Rear PDC retrofit connection diagram



Branch /Item	Designation	Signal	Cable colour / Cross-section	Connection site in the car	Abbreviation/ Slot
Α	Rear PDC wiring harness				
A1	Natural 18-pin socket casing			On control unit D	X18013
A2	SW 3-pin socket casing			On sensor M , rear right outside	X18023
A3	SW 3-pin socket casing			On sensor M , rear right inside	X18022
A4	SW 3-pin socket casing			On sensor M , rear left inside	X18021
A5	SW 3-pin socket casing			On sensor M , rear left outside	X18020
В	Supply cable				
B1	Double flat spring contact	Terminal 15	GN/WS 0.50 mm ²	Cars built before 03/07 only On fuse holder A4010 Cars built after 03/07 only On fuse holder A4010	X11003 PIN 8 X11001 PIN 7
B2	Eyelet M6	Terminal 31	Brown/black 0.50 mm ²	On joint connector, in footwell on passenger side	X10012
В3	Twisted cable	CAN high	OR/GN 0.35 mm ²	To standard wiring harness, in footwell on passenger side	X15001
B4	Twisted cable	CAN low	GN 0.35 mm ²	To standard wiring harness, in footwell on passenger side	X15002
B5	SW 12-pin socket casing			On control unit D	X300
С	Signal generator cable			Only for cars built before 09/07 without SA 606/609/663	
C1	SW 2-pin socket casing			On rear signal generator H	X14279
C2	Socket contact	LS_HI+	BL/GN 0.35 mm ²	With branch B5 on control unit D	X300 PIN 4
C3	Socket contact	LS_HI-	SW/GN 0.35 mm ²	With branch B5 on control unit D	X300 PIN 10

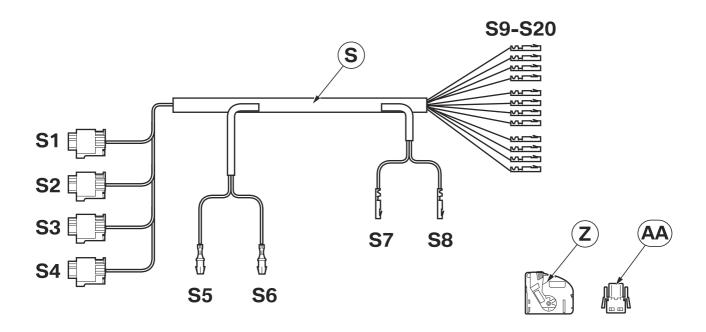
5. Front PDC upgrade/retrofit connection diagram



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Branch/ Item	Designation	Signal	Cable colour / Cross-section	Connection site in the car	Abbreviation/ Slot
S	Front PDC wiring harness				
S1	SW 3-pin socket casing			On sensor X , front right outside	X18019
S2	SW 3-pin socket casing			On sensor X , front right inside	X18018
S3	SW 3-pin socket casing			On sensor X , front left inside	X18017
S4	SW 3-pin socket casing			On sensor X , front left outside	X18016
S5	Socket contact, 2.5 mm	LS_VO+	BL/GR 0.35 mm ²	Only for cars built before 09/07 without SA 606/609/663 With socket casing AA on front signal generator U Only for cars built after 09/07 or with SA 606/609/663 Insulate and tie back	X14278 PIN 1
S6	Socket contact, 2.5 mm	LS_VO-	SW/RT 0.35 mm ²	Only for cars built before 09/07 without SA 606/609/663 With socket casing AA on front signal generator U Only for cars built after 09/07 or with SA 606/609/663 Insulate and tie back	X14278 PIN 2
S7	Socket contact	LS_VO+	BL/GR 0.35 mm ²	Only for cars built before 09/07 without SA 606/609/663 With branch B5 on control unit T Only for cars built after 09/07 or with SA 606/609/663 Insulate and tie back	X300 PIN 5
S8	Socket contact	LS_VO-	SW/RT 0.35 mm ²	Only for cars built before 09/07 without SA 606/609/663 With branch B5 on control unit T Only for cars built after 09/07 or with SA 606/609/663 Insulate and tie back	X300 PIN 11

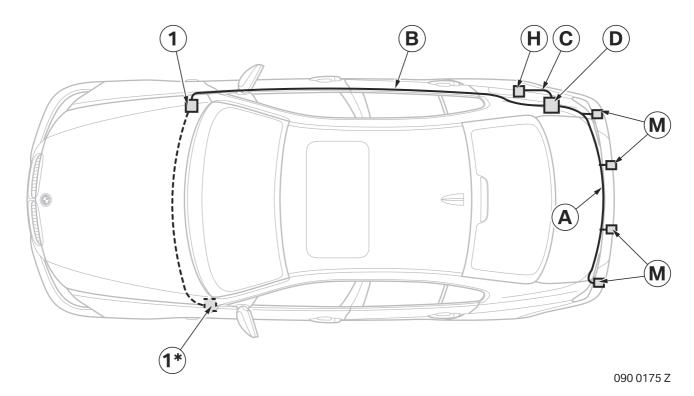
5. Front PDC upgrade/retrofit connection diagram



090 0174 Z

Branch/ Item	Designation	Signal	Cable colour / Cross-section	Connection site in the car	Abbreviation / Slot
S9	Socket contact	U_WVR	GN/VI 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 8
S10	Socket contact	M_WVR	BR/GE 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 11
S11	Socket contact	D_WVR	GE/BR 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 17
S12	Socket contact	U_WVMR	GN/GR 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 7
S13	Socket contact	M_WVM R	BR/BL 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 10
S14	Socket contact	D_WVMR	GE/SW 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 16
S15	Socket contact	U_WVML	GN/BR 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 6
S16	Socket contact	M_WVML	Brown/black 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 3
S17	Socket contact	D_WVML	GE/GN 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 15
S18	Socket contact	U_WVL	GN/SW 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 5
S19	Socket contact	M_WVL	BR/WS 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 2
S20	Socket contact	D_WVL	GE/GR 0.35 mm ²	With socket casing Z on control unit T	X18362 PIN 14
Z	SW 18-pin socket casing			On control unit T	X18362
AA	SW 2-pin socket casing			Only for cars built before 09/07 without SA 606/609/663 On front signal generator U	X14278

6. Rear PDC retrofit installation and cabling diagram (only for E90 cars)



Legend

- A Rear PDC wiring harness
- B Supply cable
- C Signal generator cable (for cars built before 09/07 without SA 606/609/663 only)
- D Control unit
- H Rear signal generator (for cars built before 09/07 without SA 606/609/663 only)
- M Sensors

1 LHD cars only

Terminal 15 pick-up on fuse holder, connector **X11003** (cars built before 03/07 only), connector **X11001** (cars built after 03/07 only)

Terminal 31 pick-up on joint connector X10012

CAN high and CAN low pick-up on standard wiring harness X15001 and X15002

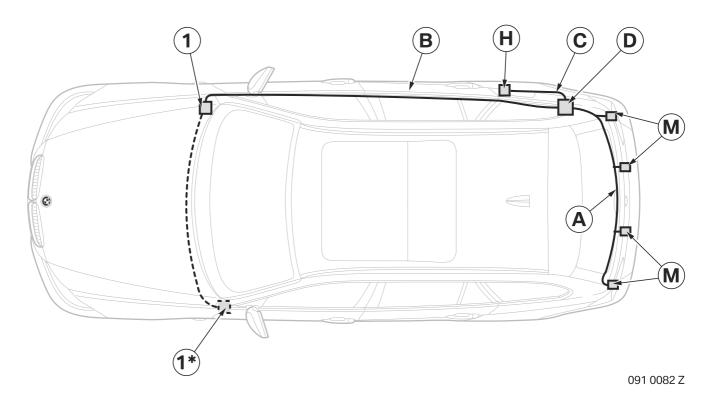
1* RHD cars only

Terminal 15 pick-up on fuse holder, connector **X11003** (cars built before 03/07 only), connector **X11001** (cars built after 03/07 only)

Terminal 31 pick-up on joint connector X10012

CAN high and CAN low pick-up on standard wiring harness X15001 and X15002

7. Rear PDC retrofit installation and cabling diagram (only for E91 cars)



Legend

- A Rear PDC wiring harness
- B Supply cable
- C Signal generator cable (for cars built before 09/07 without SA 606/609/663 only)
- D Control unit
- H Rear signal generator (for cars built before 09/07 without SA 606/609/663 only)
- M Sensors

1 LHD cars only

Terminal 15 pick-up on fuse holder, connector **X11003** (cars built before 03/07 only), connector **X11001** (cars built after 03/07 only)

Terminal 31 pick-up on joint connector X10012

CAN high and CAN low pick-up on standard wiring harness X15001 and X15002

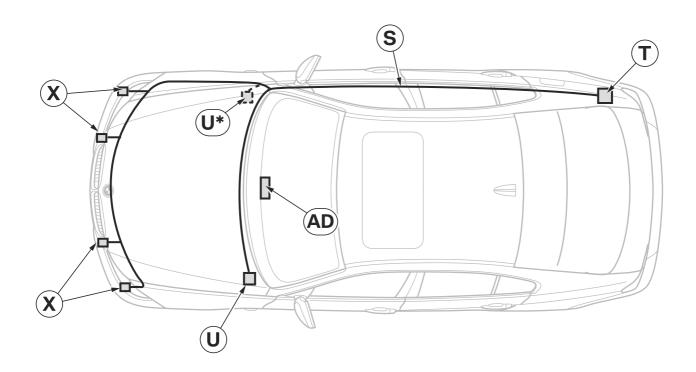
1* RHD cars only

Terminal 15 pick-up on fuse holder, connector **X11003** (cars built before 03/07 only), connector **X11001** (cars built after 03/07 only)

Terminal 31 pick-up on joint connector X10012

CAN high and CAN low pick-up on standard wiring harness X15001 and X15002

8. Front PDC upgrade/retrofit installation and cabling diagram

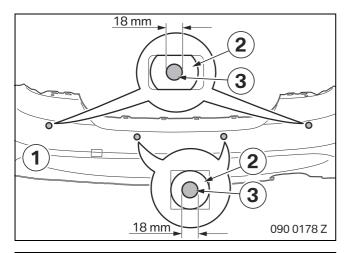


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Legend

- S Front PDC wiring harness
- T Control unit
- U For LHD cars built before 09/07 without SA 606/609/663 only Signal generator front
- U* For RHD cars built before 09/07 without SA 606/609/663 only Signal generator front
- X Sensors
- AD Switch centre, centre console

9. Installing the sensors at the rear (rear PDC retrofit)

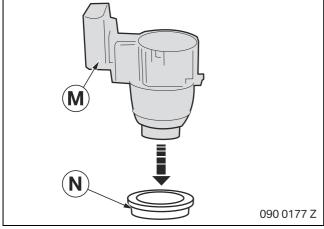


Clean and degrease the bumper trim (1) at the gluing points (2).

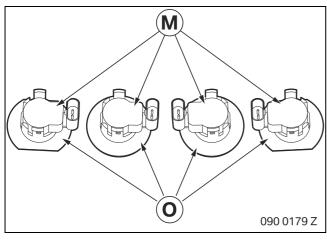
Drill through the bumper trim (1) in the centre of the marked holes (3) using a 3 mm twist drill bit.

Enlarge the holes in the bumper trim (1) using a 18 mm step drill.

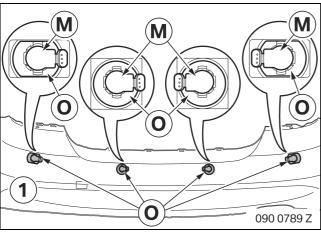
Deburr the edges of the holes.



Fit sensors **M** into disconnecting rings **N**.



Fit sensors M into sensor holders O.

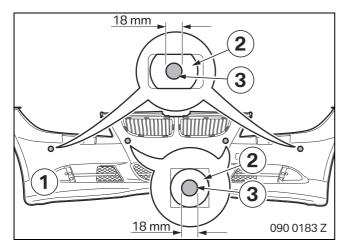


Sensor holders **O** are coded. Check the descriptions on sensor holders **O**. The connection plugs for sensors **M** point towards the inside of the bumper trim (1).

Affix sensor holders **O** to the bumper trim (1) as per the descriptions:

- HLA to the left outside
- HLI to the left inside
- HRI to the right inside
- HRA to the right outside

10. Installing the front sensors (front PDC upgrade/retrofit)

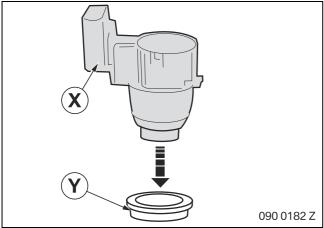


Clean and degrease the bumper trim (1) at the gluing points (2).

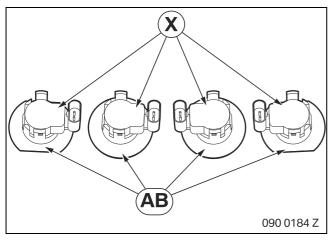
Drill through the bumper trim (1) in the centre of the marked holes (3) using a 3 mm twist drill bit.

Enlarge the holes in the bumper trim (1) using a 18 mm step drill.

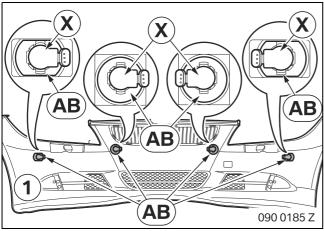
Deburr the edges of the holes.



Fit sensors X into disconnecting rings Y.



Fit sensors X into sensor holders AB.

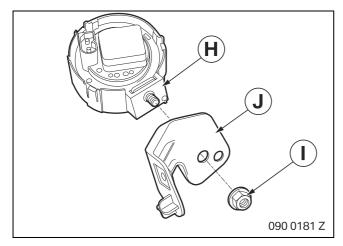


Sensor holders **AB** are coded. Check the descriptions on sensor holders **AB**. The connection plugs for sensors **X** point towards the inside of the bumper trim (1). ◀

Affix sensor holders **AB** to the bumper trim (1) as per the descriptions:

- VOA to the left and right outside
- VOI to the inside

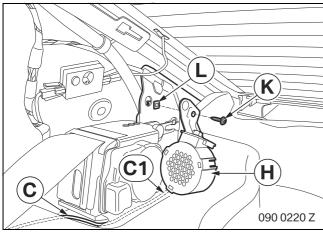
11. Installing the signal generator (for cars built before 09/07 without SA 606/609/663 only)



Rear PDC retrofit (E90 cars only)

Insert rear signal generator **H** into holder **J** using a stud bolt and fixing pin.

Secure rear signal generator **H** with hexagonal nut **I**.

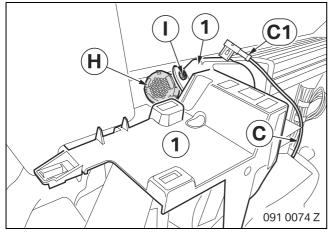


Connect branch **C1** to rear signal generator **H**.

Insert expanding nut **L** into the C pillar.

Secure rear signal generator **H** to expanding nut **L** using fillister head self-tapping screw **K**.

Route signal generator cable **C** along the standard wiring harness to the right-hand side of the boot.



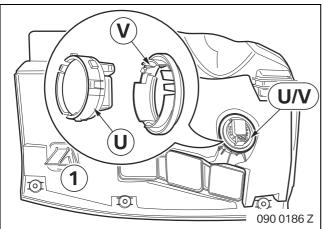
Rear PDC retrofit (E91 cars only)

Connect branch C1 to rear signal generator H.

Insert rear signal generator **H** into the holder (1) using a stud bolt and fixing pin.

Secure rear signal generator **H** with hexagonal nut **I**.

Route signal generator cable **C** along the standard wiring harness to the right-hand side of the boot.



All cars

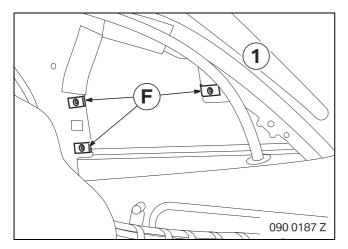
Front PDC upgrade/retrofit

The interlocks on front signal generator **U**, adapter **V** and pedal trim (1) are coded. They will only fit into one position. ◀

Clip front signal generator **U** into adapter **V**.

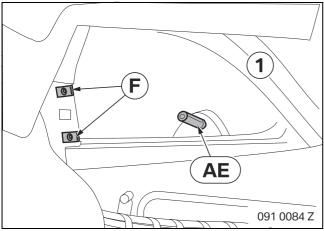
Clip adapter V into the pedal trim (1).

12. To install the control unit



Rear PDC retrofit (E90 cars only)

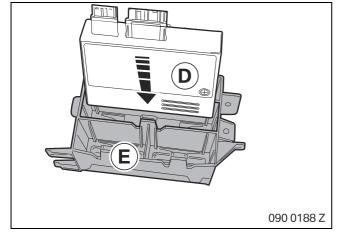
Place speed nuts **F** into the right-hand boot side section (1).



Rear PDC retrofit (E91 cars only)

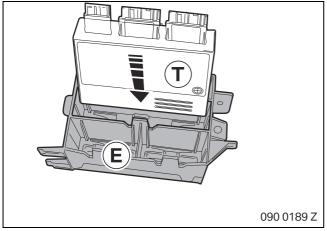
Place speed nuts **F** into the right-hand boot side section (1).

Insert speed nuts **AE** on the mounting points on the right-hand side of the boot (1).



All cars

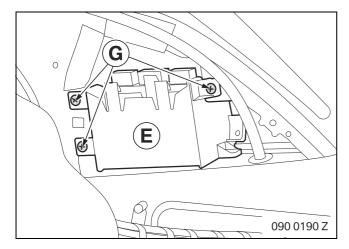
Insert control unit **D** into module holder **E**.



Front PDC upgrade/retrofit

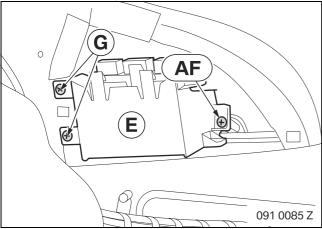
Insert control unit T into module holder E.

12. To install the control unit



E90 cars only

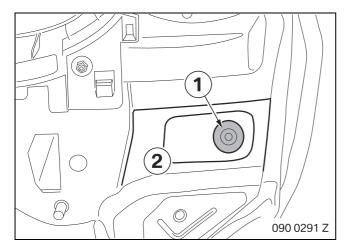
Insert module holder **E** into the right-hand boot side section and secure it with self-tapping screws **G**.



E91 cars only

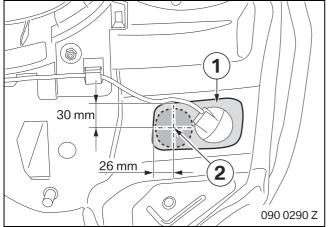
Insert module holder **E** into the right-hand boot side section and secure it with self-tapping screws **G** and **AF**.

13. To install and connect the rear PDC wiring harnesses



Cars without SA 235 only

Remove the sealing stopper (1) from the right rear closing panel (2).

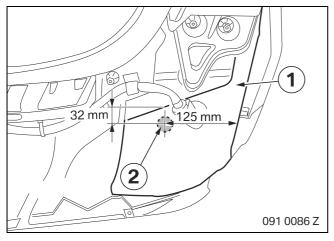


E90 cars with SA 235 only

Mark the specified dimensions on the rear closing panel (1).

Drill through the rear closing panel (1) at the drilling point (2) and enlarge the hole using a 40 mm step drill bit.

Deburr the hole and coat the bare surfaces with preservative.

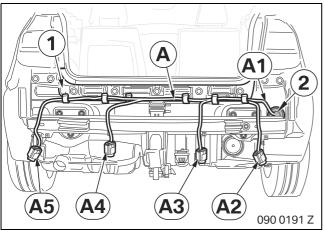


E91 cars with SA 235 only

Mark the specified dimensions on the rear closing panel (1).

Drill through the rear closing panel (1) at the drilling point (2) and enlarge the hole using a 40 mm step drill bit.

Deburr the hole and coat the bare surfaces with preservative.



All cars

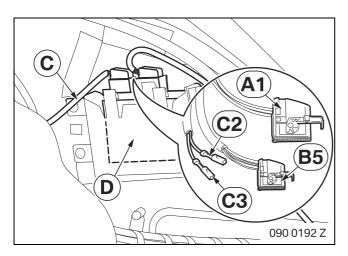
Route branch **A1** to the boot and insert the grommet (2).

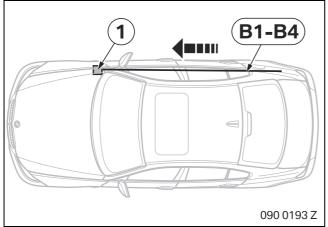
Route rear PDC wiring harness **A** into the holding lugs on the holder (1).

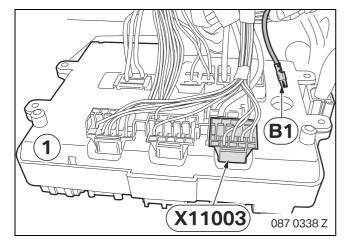
Connect branches **A2–A5** to sensors **M** (not shown).

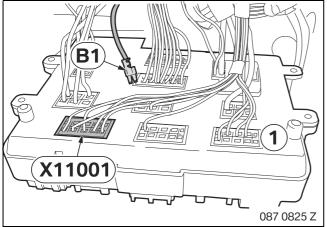
Fit the bumper trim.

13. To install and connect the rear PDC wiring harnesses









For cars built before 09/07 without SA 606/609/663 only

Route signal generator cable C to control unit D.

Connect branches **C2** and **C3** to branch **B5** as follows:

- Branch C2, BL/GN cable, to PIN 4
- Branch C3, SW/GN cable, to PIN 10

All cars

Connect branches A1 and B5 to control unit D.

Route branches **B1–B4** along the standard wiring harness to the fuse holder (1).

Cars built before 03/07 only

Release the fuse holder (1).

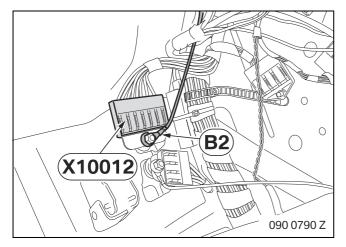
Connect branch **B1**, GN/WS cable, to PIN 8 of plug **X11003** (BL 15-pin).

Cars built after 03/07 only

Release the fuse holder (1).

Connect branch **B1**, GN/WS cable, to PIN 7 of plug **X11001** (BL 10-pin).

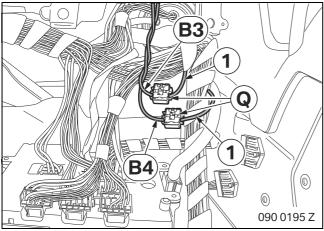
13. To install and connect the rear PDC wiring harnesses



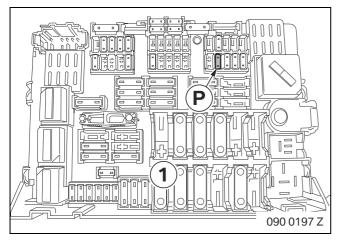
All cars

Route branch **B2**, brown/black cable, to the footwell on the passenger side.

Secure branch **B2** to joint connector **X10012** (cable colours BR/SW).



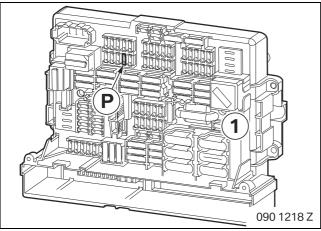
Connect branch **B3**, OR/GR cable, and branch **B4**, GN cable, to the cables of the same colours on the twisted cables (1) on the standard wiring harness using miniature connectors **Q**.



Cars built before 03/07 only

Fit the fuse holder (1).

Insert fusible link P into slot F 28.

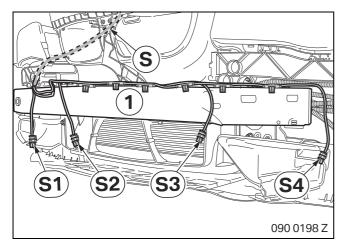


Cars built after 03/07 only

Fit the fuse holder (1).

Insert fusible link P into slot F 28.

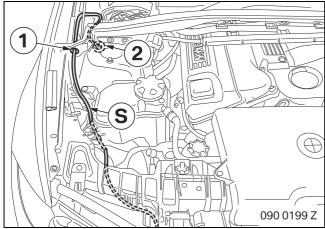
14. To install and connect the front PDC wiring harness



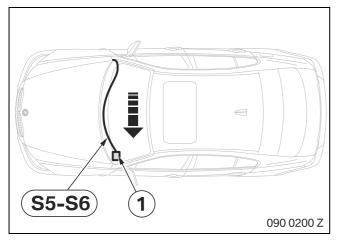
Connect front PDC wiring harness **A** to the holder (1) with cable ties and route it to behind the right headlight.

Connect branches **S1–S4** to sensors **X** (not shown).

Fit the bumper trim.



Route front PDC wiring harness **S** along the standard wiring harness through grommets (1) and (2) into the interior.

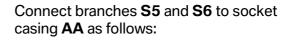


Only cars built after 09/07 or with SA 606/609/663

Insulate and tie back branch **S5**, BL/GR cable, and branch **S6**, SW/RT cable.

For cars built before 09/07 without SA 606/609/663 only

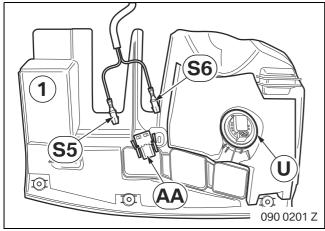
Route branch **\$5**, BL/GR cable, and branch **\$6**, SW/RT cable, along the standard wiring harness to the pedals (1).



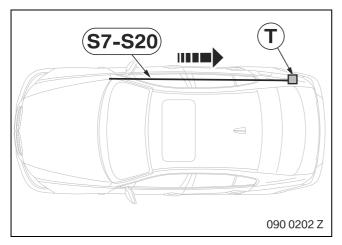
- Branch S5, BL/GR cable, to PIN 1
- Branch S6, SW/RT cable, to PIN 2

Connect socket casing **AA** to front signal generator **U**.

Fit the pedal trim (1).

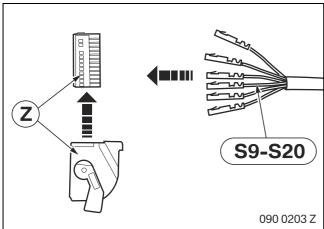


14. To install and connect the front PDC wiring harness



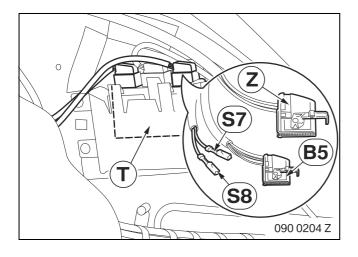
All cars

Route branches **S7–S20** along the standard wiring harness to control unit **T**.



Connect branches **S9–S20** to socket casing **Z** as follows:

- Branch **S9**, GN/VI cable, to PIN 8
- Branch S10, BR/GE cable, to PIN 11
- Branch **S11**, GE/BR cable, to PIN 17
- Branch **S12**, GN/GR cable, to PIN 7
- Branch \$13, BR/BL cable, to PIN 10
- Branch **\$14**, GE/SW cable, to PIN 16
- Branch S15, GN/BR cable, to PIN 6
- Branch **\$16**, BR/SW cable, to PIN 3
- Branch **S17**, GE/GN cable, to PIN 15
- Branch S18, GN/SW cable, to PIN 5
- Branch **S19**, BR/WS cable, to PIN 2
- Branch **S20**, GE/GN cable, to PIN 14



In cars with an existing SA 507, branch **B5** corresponds to plug **X300** already fitted in the car. ◀

Only cars built after 09/07 or with SA 606/609/663

Insulate and tie back branches S7 and S8.

For cars built before 09/07 without SA 606/609/663 only

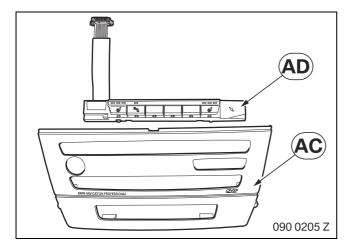
Connect branches **S7** and **S8** to branch **B5** as follows:

- Branch **S7**, BL/GR cable, to PIN 5
- Branch S8, SW/RT cable, to PIN 11

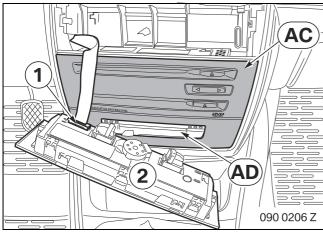
All cars

Connect branch **B5** and socket casing **Z** on control unit **T**.

15. To install the centre console switch centre (front PDC upgrade/retrofit)



Clip centre console switch centre **AD** into trim **AC**.



Clip trim **AC** into the trim for the centre instrument panel.

Connect the plug (1) from centre console switch centre **AD** to the heating/air-conditioning control (2).

Clip in the heating/air-conditioning control (2).

16. Concluding work and coding

These retrofit systems require encoding.

- Connect the battery

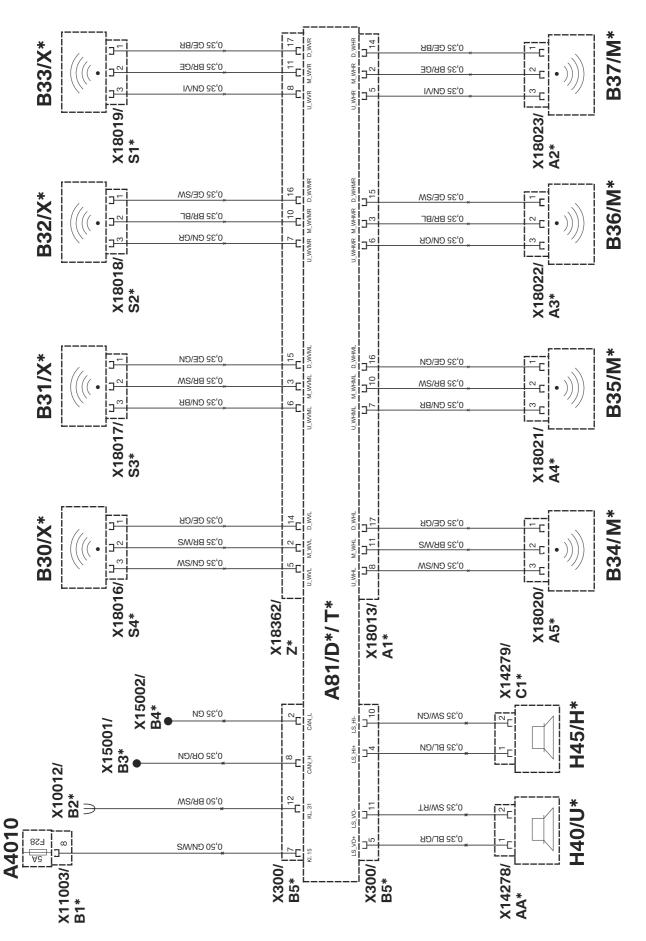
Cars with an existing rear PDC only

- Encode/program the front PDC retrofit via path Conversion

All cars

- Encode/program the retrofit via path **Retrofit**
- Conduct a brief test
- Conduct a function test
- Re-fit the car components as required

17. Circuit diagram for front and rear PDC (cars built before 03/07 only)



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090 0207 Z

17. Circuit diagram for front and rear PDC (cars built before 03/07 only)

Legend

A81 A4010	Control unit, D* rear PDC and T* front PDC Fuse holder
B30- B33	Front sensors, X*
B34- B37	Rear sensors, M*
H40	Front signal generator, U* (for cars built before 09/07 without SA 606/609/663 only)
H45	Rear signal generator, H* (for cars built before 09/07 without SA 606/609/663 only)
X300	SW 12-pin socket casing, B5*
X10012	Terminal 31 pick-up joint connector contact, B2*
X11003	Blue 15-pin socket casing, B1*
X14278	2-pin SW socket casing, AA* (cars built before 09/07 without SA 606/609/663 only)
X14279	2-pin SW socket casing, C1* (cars built before 09/07 without SA 606/609/663 only)
X15001	Open cable, CAN high pick-up, B3*
X15002	Open cable, CAN low pick-up, B4*
X18013	Natural 18-pin socket casing, A1*
X18016	Black 3-pin socket casing, S4*
X18017	Black 3-pin socket casing, S3*
X18018	Black 3-pin socket casing, S2*
X18019	Black 3-pin socket casing, S1*
X18020	Black 3-pin socket casing, A5*
X18021	Black 3-pin socket casing, A4*

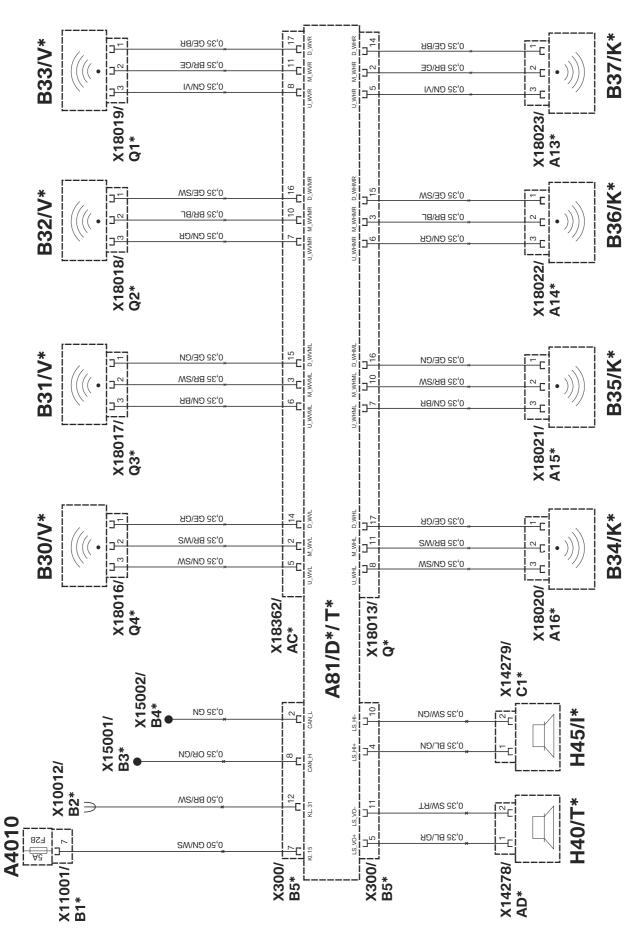
All the designations marked with an asterisk (*) apply only to these installation instructions or this circuit diagram.

Cable colours

X18022 Black 3-pin socket casing, A3*
X18023 Black 3-pin socket casing, A2*
X18362 Black 18-pin socket casing, Z*

BL	Blue	OR	Orange
BR	Brown	RT	Red
GE	Yellow	SW	Black
GN	Green	VI	Violet
GR	Grey	WS	White

18. Circuit diagram for front and rear PDC (cars built after 03/07 only)



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087 0826 Z

18. Circuit diagram for front and rear PDC (cars built after 03/07 only)

Legend

A81 A4010	Control unit, D* front PDC and T* rear PDC Fuse holder
B30- B33	Front sensors, V*
B34- B37	Rear sensors, K*
H40 H45	Front speaker, T* (for cars built before 09/07 without SA 606/609/663 only) Rear speaker, I* (for cars built before 09/07 without SA 606/609/663 only)
X300	SW 12-pin socket casing, B5*
X10012	Terminal 31 pick-up joint connector contact, B2*
X11001	BL 10-pin socket casing, B1*
X14278	2-pin SW socket casing, AD* (cars built before 09/07 without SA 606/609/663 only)
X14279	2-pin SW socket casing, C1* (cars built before 09/07 without SA 606/609/663 only)
X15001	Open cable, CAN high pick-up, B3*
X15002	Open cable, CAN low pick-up, B4*
X18013	Natural 18-pin socket casing, Q*
X18016	SW 3-pin socket casing, S4*
X18017	SW 3-pin socket casing, S3*
X18018	SW 3-pin socket casing, S2*
X18019	SW 3-pin socket casing, S1*

X18022 SW 3-pin socket casing, A14*

X18023 SW 3-pin socket casing, A13*

X18020 SW 3-pin socket casing, A16* X18021 SW 3-pin socket casing, A15*

X18362 SW 18-pin socket casing, AC*

All the designations marked with an asterisk (*) apply only to these installation instructions or this circuit diagram.

Cable colours

BL	Blue	OR	Orange
BR	Brown	RT	Red
GE	Yellow	SW	Black
GN	Green	VI	Violet
GR	Grey	WS	White