Parts and Accessories.
Installation Instructions.

Park Distance Control retrofit
BMW 5 Series Saloon (E60)

Retrofit kit No. 66 20 304 550

Installation time
The installation time is 3.75 hours, but this may vary depending on the condition of the car and the equipment in it.

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.

Ensure that the cables/lines are not kinked or damaged as you install them in the car. The costs incurred as a result of this 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 occupied, bridges, double crimps or twin-lead terminals must be used.

Before you install the retrofit system, test the control module status with the CIP (coding, customising, programming) test program. If the test detects incorrect statuses in one or more control modules, these must be updated first using the “Load software” function.

All the figures show LHD cars, proceed in exactly the same way on RHD cars.

Pictograms

Denotes instructions that draw your attention to dangers.

Denotes instructions that draw your attention to special features.

◂ denotes the end of the instruction or other text.

See the EBA CD or Aftersales Portal for explanations of the pictograms.

Do not archive the hard copy of these installation instructions since daily updates are made by Aftersales Portal.

Subject to technical modifications.

The bumpers, the ultrasonic converters and the oddments box switch unit are not included in the installation kit and must be ordered separately (see EPC for part numbers and details).

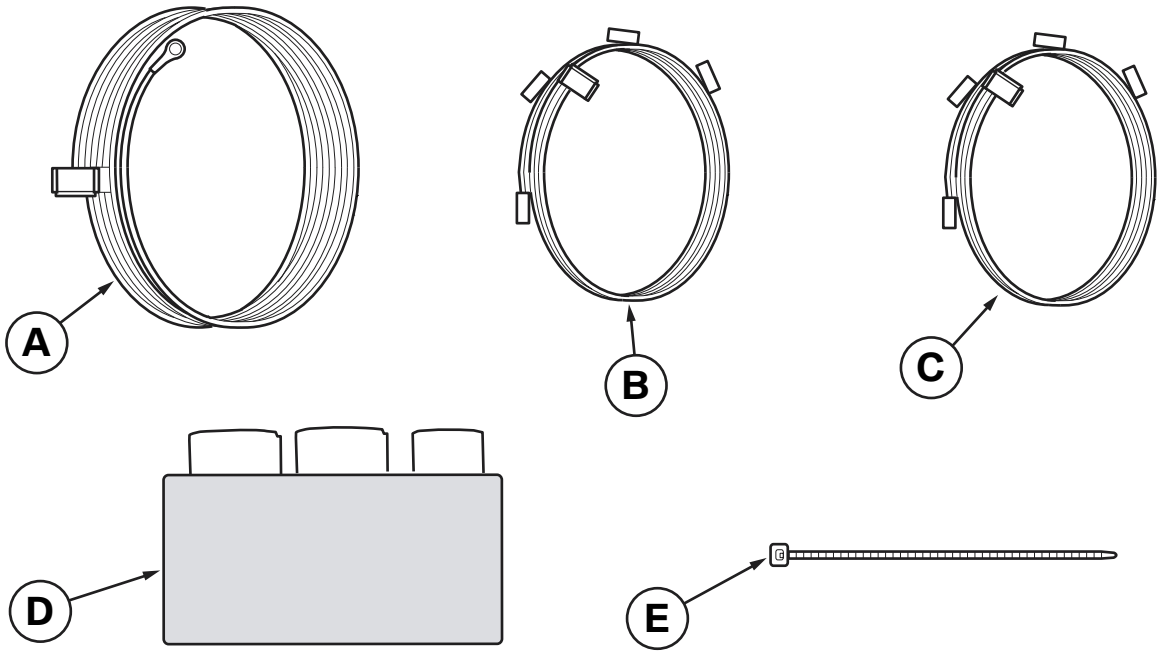
Installation information

After the installation work the retrofit kit must be programmed / coded using DISPlus or GT-1 via the Retrofit path.

Special tools required
None

Contents

1. Parts list



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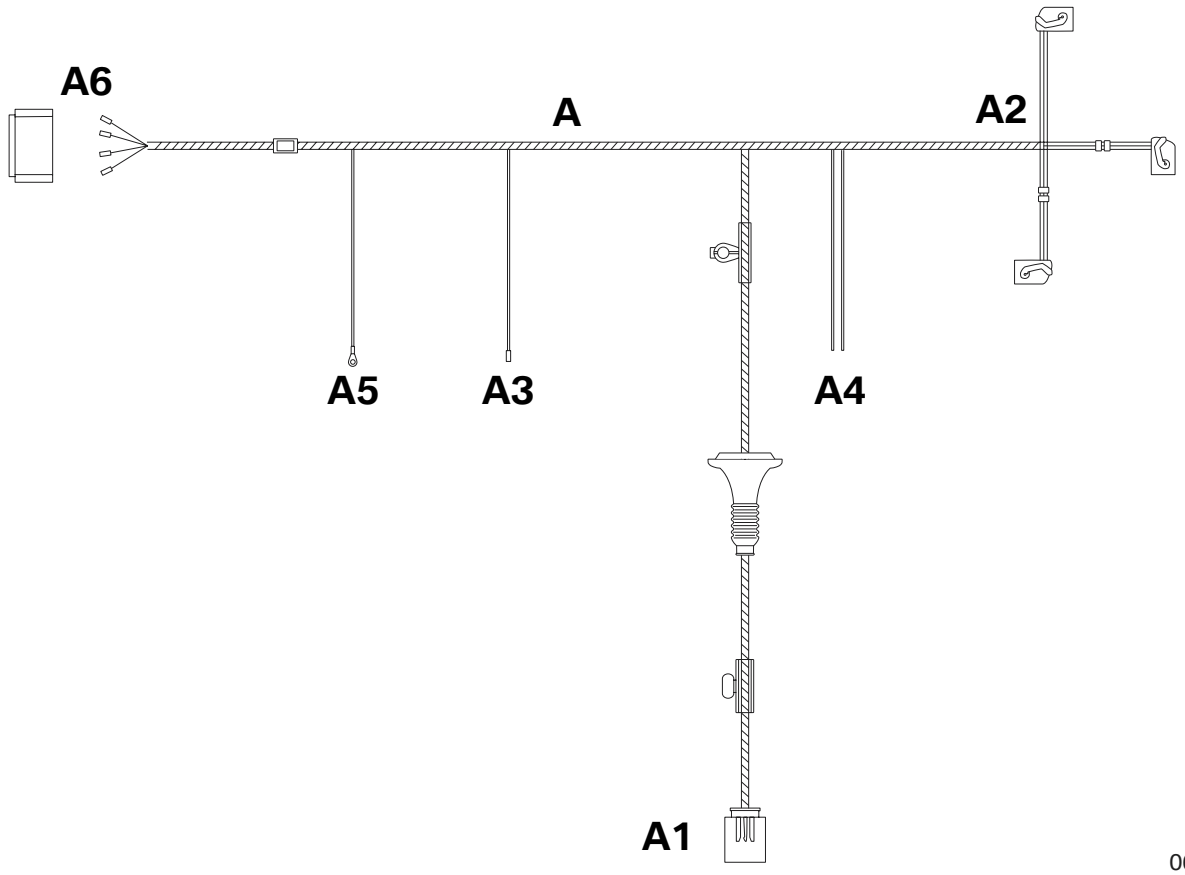
Legend

A PDC wiring harness
B Rear bumper wiring harness
C Front bumper wiring harness
D PDC control module
E Cable tie (20x)

2. Preparations

	TIS No.
Conduct a brief test	---
Disconnect the negative pole of the battery	12 00 ...
The following components must be removed first of all	
Remove the front bumper	51 11 156
Remove the rear bumper	---
Remove the passenger's footwell trim	51 45 181
Replace the switch unit on the oddments box	61 31 057
Remove the boot trim in the centre and on the right	---
Remove the A pillar side trim at the bottom	---
Remove the B pillar side trim on the right	---
Remove the air engine compartment air ducts on the right	---
Remove the side section of the backrest	52 26 008

3. Connection diagram



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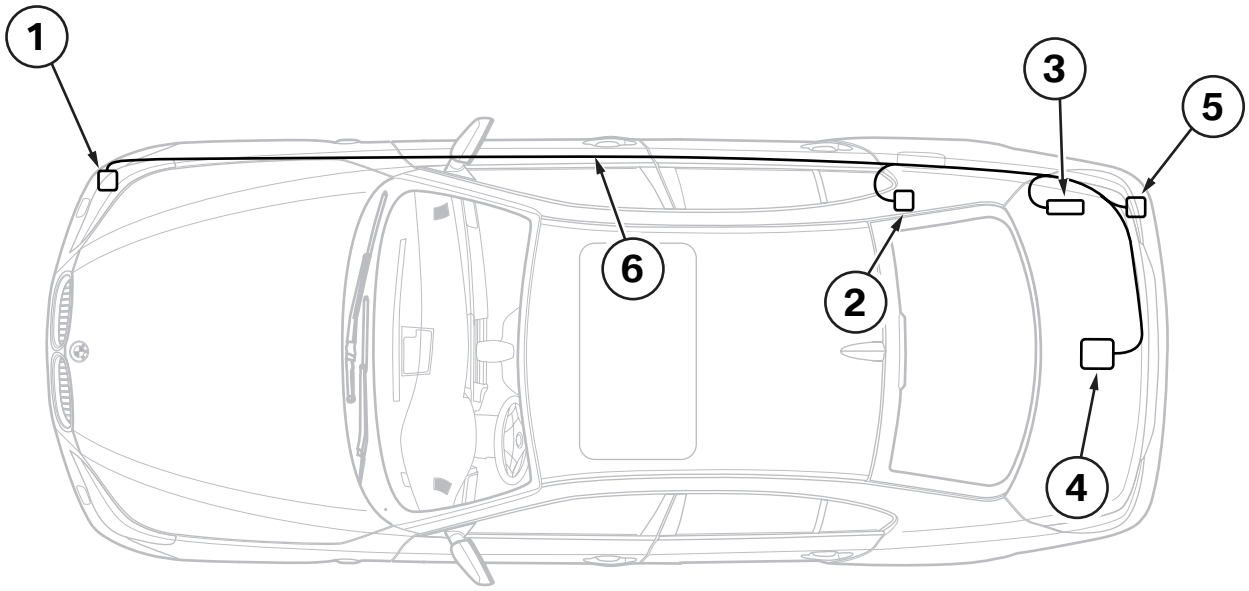
Item	Description	Signal	Cable colour / Cross-section	Connection location in the car	Abbreviation / Slot
A	Wiring harness	---	---	---	---
A1	Plug contacts	---	SWWS 0.35 mm² GEWS 0.35 mm² BRWS 0.35 mm² SWGR 0.35 mm² GEGR 0.35 mm² BRGR 0.35 mm² SWBL 0.35 mm² GEBL 0.35 mm² BRBL 0.35 mm² SWGE 0.35 mm² GEGN 0.35 mm² BRGE 0.35 mm²	To rear bumper SW 12-pin plug	X13698S PIN 1 X13698S PIN 2 X13698S PIN 3 X13698S PIN 4 X13698S PIN 5 X13698S PIN 6 X13698S PIN 7 X13698S PIN 8 X13698S PIN 9 X13698S PIN 10 X13698S PIN 11 X13698S PIN 12
A2	Socket casing, SW, NATURAL, SW	---	---	To PDC control module	X300 X18013 X18362

3. Connection diagram

Item	Description	Signal	Cable colour / Cross-section	Connection location in the car	Abbreviation / Slot
A3	Socket contact	Terminal 15	GNBL 0.5 mm²	To fuse distributor, SW 32-pin plug	X11012 PIN 16
A4	Cable	K-CAN H K-CAN L	SW 0.5 mm² GE 0.5 mm²	To boot standard wiring harness	X15013 X15014
A5	Socket contact	Terminal 31	BR 0.5 mm²	To earth in rear right wheel arch	X13790
A6	Socket contacts	---	SWWS 0.35 mm² GEWS 0.35 mm² BRWS 0.35 mm² SWGR 0.35 mm² GEGR 0.35 mm² BRGR 0.35 mm² SWBL 0.35 mm² GEBL 0.35 mm² BRBL 0.35 mm² SWGE 0.35 mm² GEGN 0.35 mm² BRGE 0.35 mm²	To front bumper, SW 12-pin plug	X10647B PIN 1 X10647B PIN 2 X10647B PIN 3 X10647B PIN 4 X10647B PIN 5 X10647B PIN 6 X10647B PIN 7 X10647B PIN 8 X10647B PIN 9 X10647B PIN 10 X10647B PIN 11 X10647B PIN 12

4. Installation and cabling diagram



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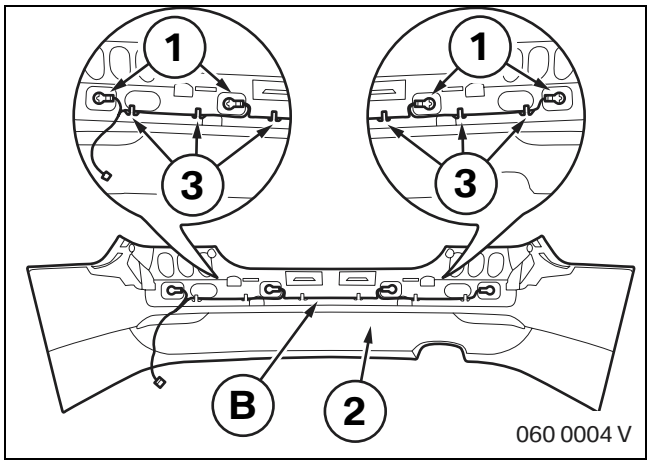
Legend

1 Front bumper connector
2 Wheel arch earth
3 Fuse distributor
4 PDC control module
5 Rear bumper connector
6 Wiring harness

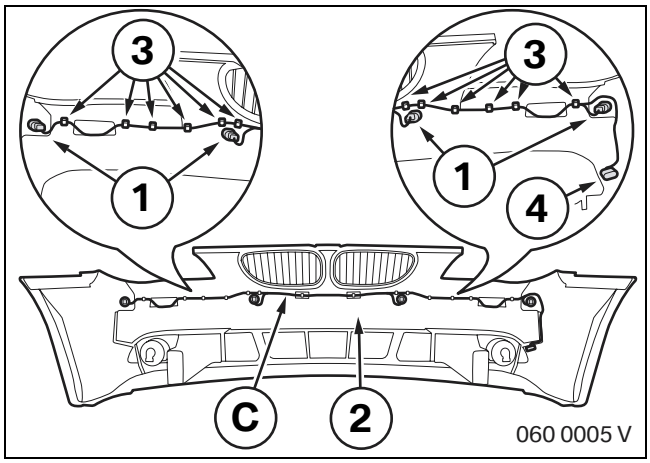
5. Installation work



Ensure that the ultrasonic converter (1) is aligned correctly. ◂

Insert the ultrasonic converter (1) into the holder on the rear bumper (2) as shown until it engages.

Connect the wiring harness **B** to the ultrasonic converters (1) and lay it behind the plastic holders (3).

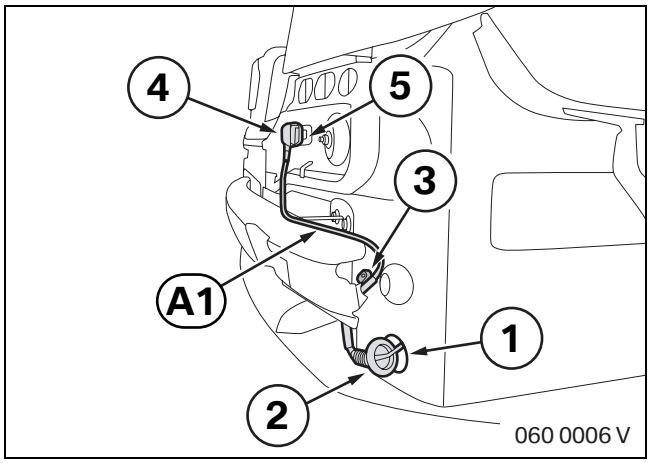


Ensure that the ultrasonic converter (1) is aligned correctly. ◂

Insert the ultrasonic converter (1) into the holder on the front bumper (2) as shown until it engages.

Connect the wiring harness **C** to the ultrasonic converters (1) and lay it behind the plastic holders (3).

Connect the plug (4) on the wiring harness **C** to the bumper.

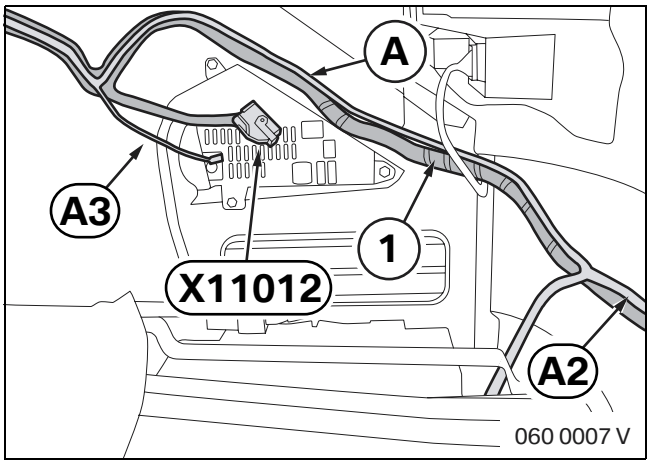


On cars with a towing hitch, remove the grommet (2) and thread the wiring harness **A** through the existing grommet. ◂

Thread the wiring harness **A** through the opening (1) into the interior. Fit the grommet (2) to the opening (1).

Secure branch **A1** to the car using the holder (3).

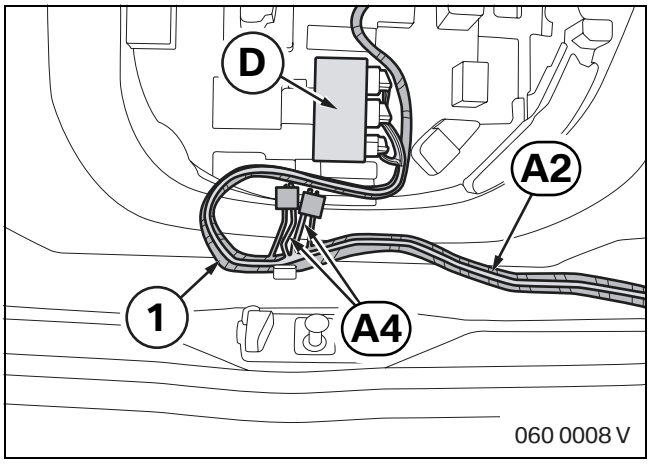
Connect branch **A1** to the plug (4) as shown in the connection diagram. Connect the plug (4) to the holder (5).



Lay the wiring harness **A** along the existing wiring harness (1) to the front.

Lay branch **A2** to the centre of the boot.

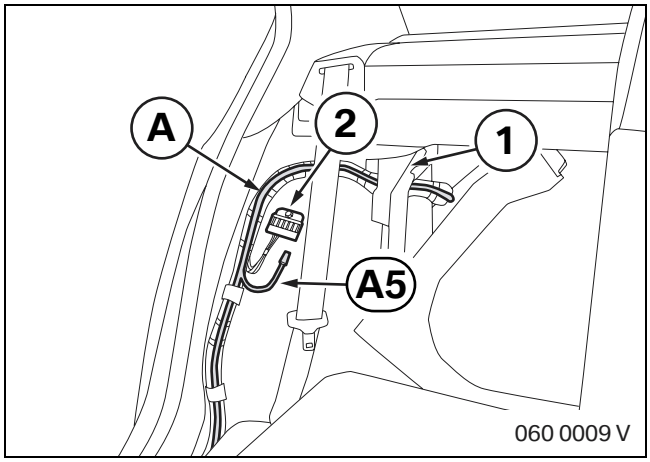
Connect branch **A3** to plug **X11012**, PIN 16.



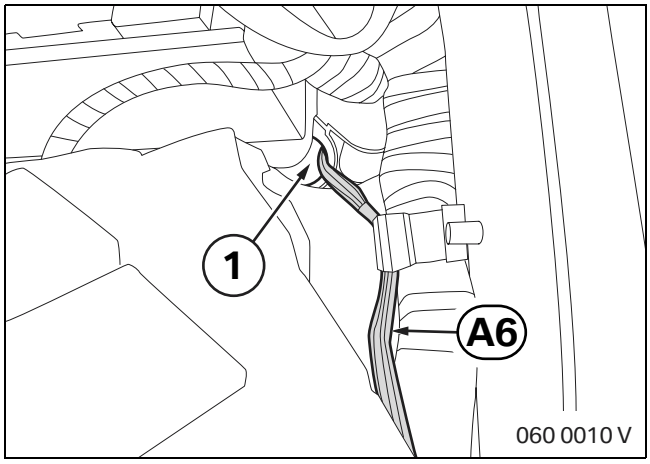
Place the control module **D** in the recess provided.

Lay branch **A2** along the wiring harness (1) to the control module **D**. Connect the plug to the control module **D**.

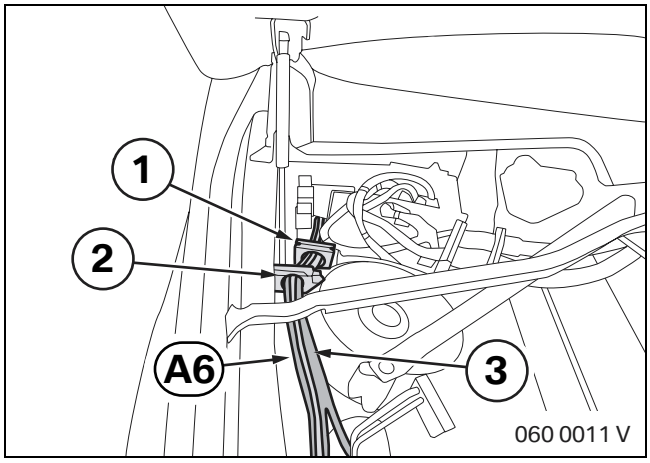
Undo the wrapping on the existing wiring harness (1) at the top. Connect branch **A4** to the cables of the same colour using insulation-piercing connectors.



Lay the wiring harness **A** under the cover (1) and along the standard wiring harness to the front. Connect branch **A5** to the wheel arch earth (2).

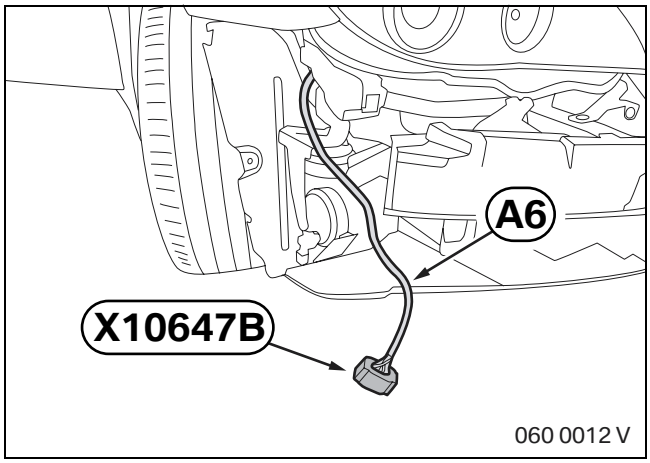


Thread branch **A6** in the passenger footwell through the grommet (1) into the engine compartment.



Thread branch **A6** through the grommet (1) and the holder (2) along the wiring harness (3) to the front bumper.

5. Installation work



Connect branch **A6** to the plug **X10647B** as shown in the connection diagram.

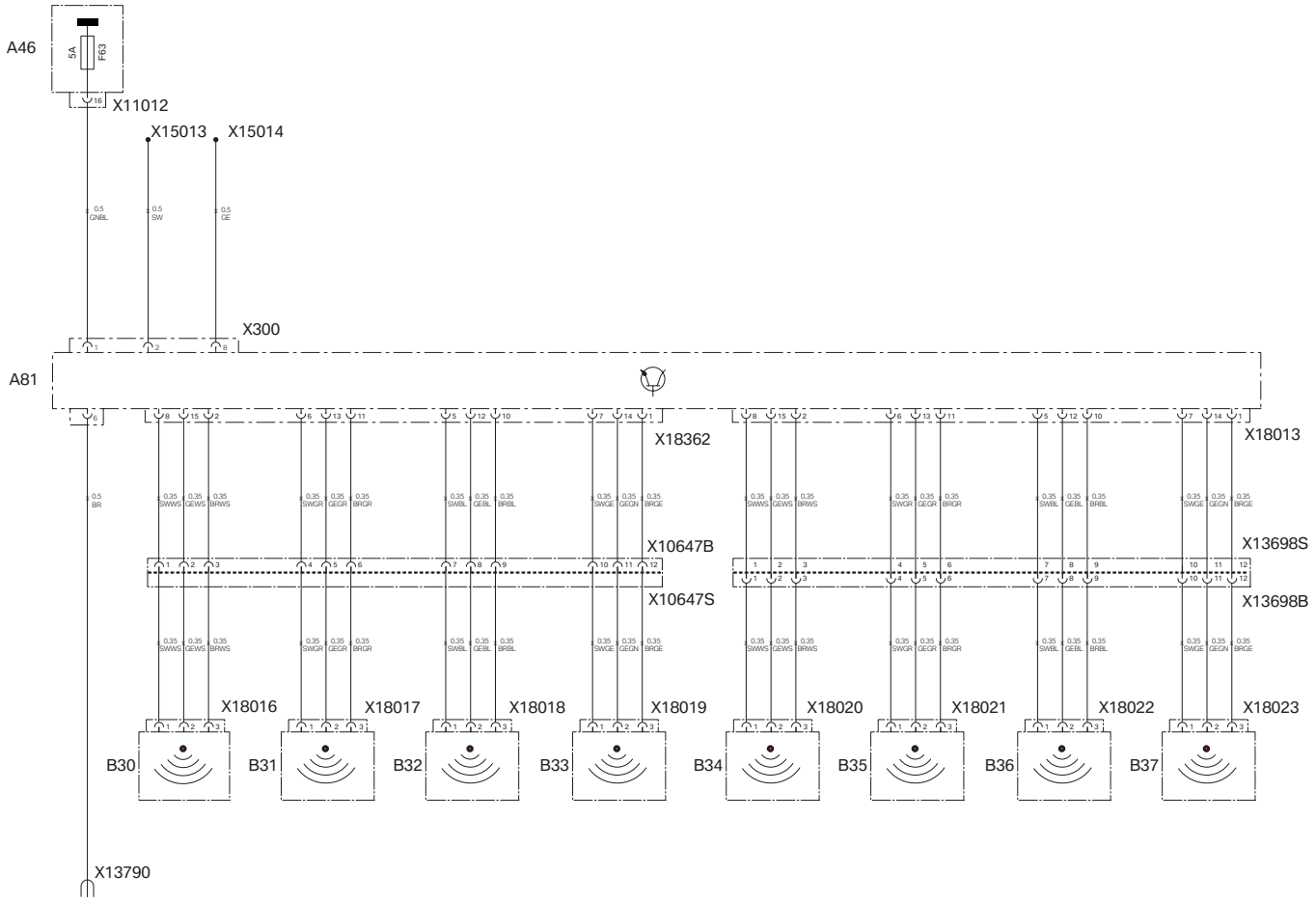
Fit the bumper.

6. Concluding work and coding

This retrofit system requires coding.

- Connect the battery
- Code the retrofit using DISPlus or GT-1 via path **Retrofit**
- Conduct a brief test
- Conduct a function test
- Re-assemble the car

7. Circuit diagram



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7. Circuit diagram

Legend

A46	Fuse distributor
A81	PDC control module
X300	12-pin PDC plug
X10647B	12-pin front PDC converter plug
X11012	32-pin fuse distributor plug
X13698S	12-pin rear PDC converter plug
X13790	Earth in rear right wheel arch
X15013	K-CAN high
X15014	K-CAN low
X18013	18-pin PDC plug
X18362	18-pin PDC plug

Cable colours

BR	Brown
GE	Yellow
GN	Green
GR	Grey
BL	Blue
SW	Black
WS	White