

Original BMW Parts and Accessories. Installation Instructions.



Removable Trailer Tow Hitch Retrofit (US). BMW X3 (G01)

Retrofit kit number

71 60 2 458 028	Electrical add-on parts retrofit kit
71 60 6 887 642	Trailer tow hitch with removable ball

Installation time

The installation time is **approx. 2.5 hours**. This may vary depending on the condition of the car and its equipment package. The installation time will increase by **approx. 0.25 hours** for cars with SA 507 or SA 508.

The installation time shown does not include any time spent on programming/coding.

The calculation of the total costs for the programming time must be factored into the calculation of retrofitting costs (must not be invoiced under the warranty).

Important information

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

These installation instructions are intended for use by qualified specialist staff trained on BMW cars with the relevant expert knowledge.

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

If you experience installation or functional problems, restrict troubleshooting to approx. 0.5 hours for mechanical work and 1.0 hour for electrical work.

To avoid unnecessary extra work and/or costs, send an inquiry straight away to the technical parts support team via the Aftersales Assistance Portal (ASAP).

Quote the following information:

- VIN,
- retrofit kit part number,
- a detailed description of the problem,
- any work already carried out.

Do not archive the hard copy of these installation instructions, since daily updates are supplied in ASAP!

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 warning text.

Legal requirements

These installation instructions also serve as installation confirmation. They must be printed and attached to the vehicle documents and kept in the car at all times until the trailer tow hitch has been entered in the vehicle documents.

Installation information

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

Additional cables/wires that are installed must be secured with cable ties. If the specified PIN chambers are occupied, bridges, double crimps, or twin-lead terminals must be used.

All illustrations show LHD (left-hand drive) cars; proceed similarly on RHD (right-hand drive) cars.

After the installation work, the retrofit must be programmed/coded via the – **Retrofits** – path.

Ordering instructions

The following parts are not supplied in the retrofit kit and must be ordered separately (see EPC for part number and details):

- Control unit **C**
- Lower rear bumper reinforcement **H**
- Lower rear bumper trim finisher
- Visibility protection trim finisher



Please notify the customer that the socket for the towing eye is no longer required in the course of the retrofit. ◀

List of special equipment

The following special equipment must be used during the installation work:

SA 507 Rear Park Distance Control

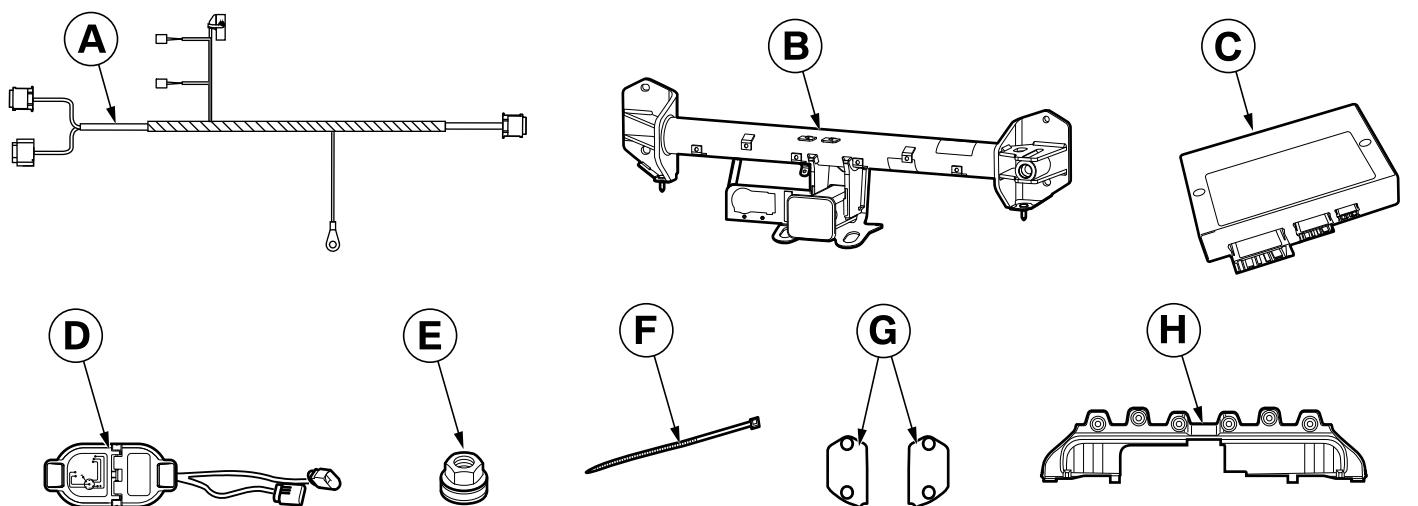
SA 508 Front and rear Park Distance Control

Special tools required

Refer to the relevant ISTA/AIR repair manual for details of the special tool required.

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1. Parts list for retrofit kit



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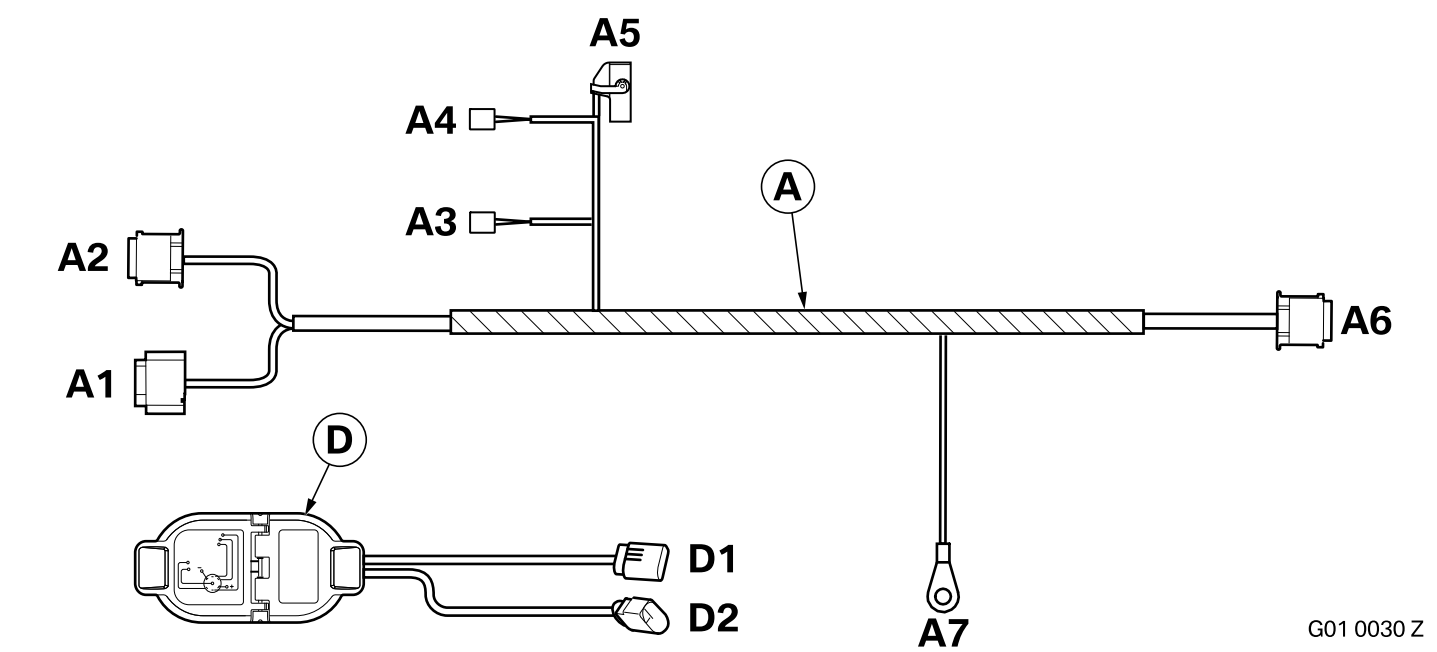
Legend

- A** Retrofit wiring harness
- B** Trailer tow hitch
- C** Control unit (not supplied in the retrofit kit)
- D** Trailer tow hitch wiring harness
- E** M12x1.5 hexagon nut (4 x)
- F** Cable tie
- G** Gasket
- H** Rear lower bumper finisher reinforcement (not supplied with the retrofit kit)

2. Preparatory work

	ISTA/AIR No.
Disconnect the negative battery cable	61 20 900
Release and disconnect various plug connections	61 13 ...
Cut, strip and crimp cables	61 11 ...
Open the plug housing and remove the contacts from various connection systems	61 13 ...
Instructions for handling wiring harnesses and cables	61 00 ...
Instructions for handling the documents: Repair manual, technical data, tightening torques	00 11 ...
The following components must be removed first of all	
Rear bumper trim	51 12 156
Support for rear bumper trim (no longer required)	51 12 050
Bottom middle cover (no longer required)	---
Luggage compartment floor trim	51 47 102
Luggage compartment wheel arch trim, right	51 47 161
Loosen the rear right power distribution box	---
Replace lower rear bumper trim finisher	---
Replace visibility protection trim finisher	---

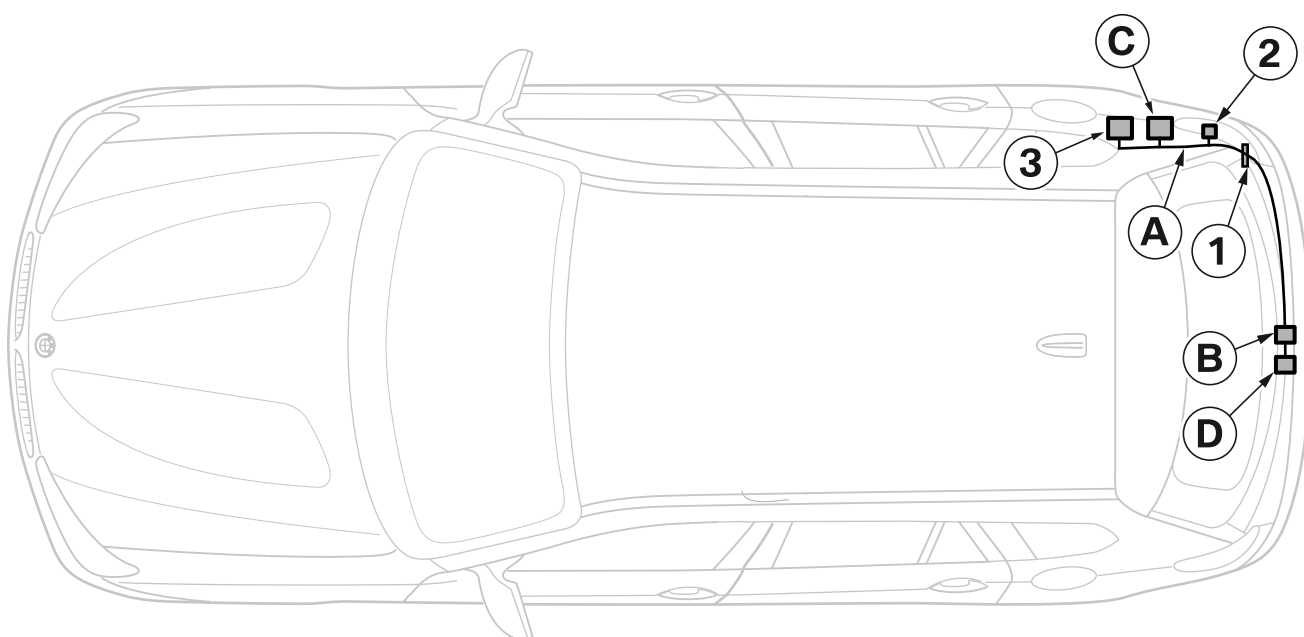
3. Retrofit wiring harness connection diagram



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Position	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/ Slot
A	Retrofit wiring harness	---	---	---	---
A1	SW 8-pin socket housing	---	---	To branch D1	X268*1B
A2	SW 1-pin socket housing	---	---	To branch D2	X268*2B
A3	SW 6-pin socket housing	---	---	To AAG control unit C	A255*2B
A4	SW 10-pin socket housing	---	---	To AAG control unit C	A255*3B
A5	SW 24-pin socket housing	---	---	To AAG control unit C	A255*1B
A6	SW 8-pin plug housing	---	---	On the preparation plug X18 in the rear right side of the luggage compartment	X18*1S
A7	Eyelet	Terminal 31	BR 2.5 mm²	Rear right luggage compartment ground support point Z10	Z10*46B
D	Trailer tow hitch wiring harness	---	---	---	X23
D1	SW 8-pin plug housing	---	---	To branch A1	X268*1S
D2	SW 1-pin plug housing	---	---	To branch A2	X268*2S

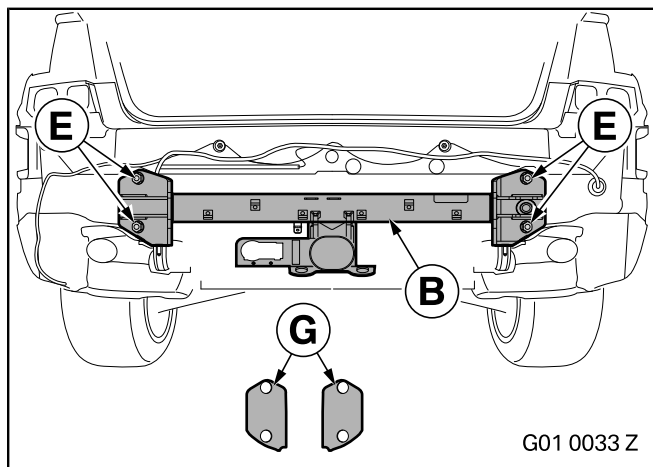
4. Installation and cabling diagram



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- A** Retrofit wiring harness
- B** Trailer tow hitch
- C** Control unit
- D** Trailer tow hitch wiring harness
- 1** Grommet
- 2** Ground support post **Z10*14B**
- 3** Connector **X18*1B**

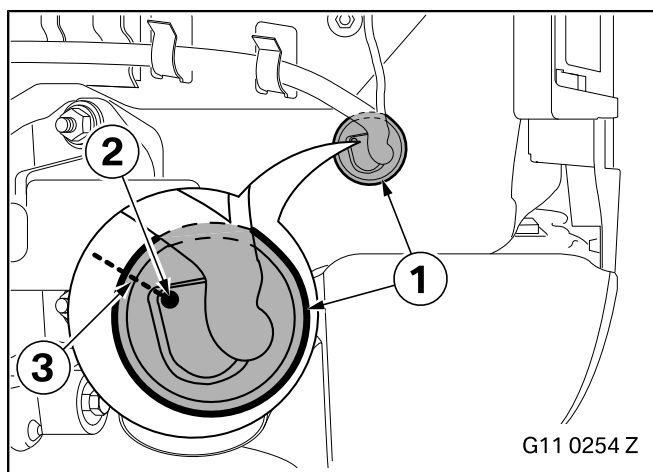
5. Installing the trailer tow hitch and connecting the retrofit wiring harness



⚠ Note the tightening torque value: 108 Nm. ◀

Place the seal **G** between the car and the trailer tow hitch **B** before installation.

Secure the trailer tow hitch **B** with hexagon nut **E**.

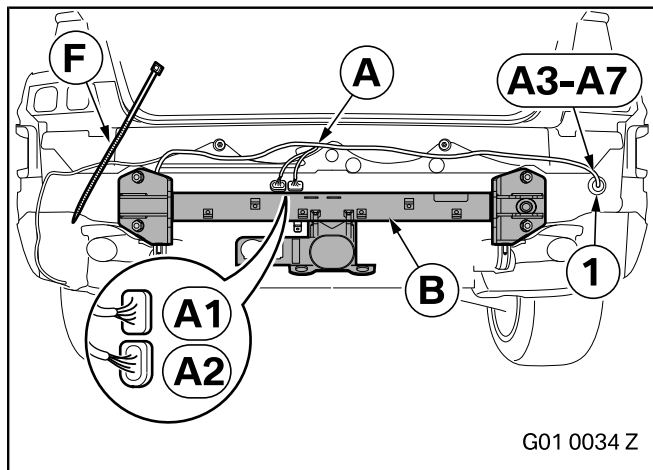


⚠ Make sure that no cables behind drilling point are damaged when you drill the holes. ◀

Remove the rubber grommet (1).

Drill a hole in the rubber grommet (1) on the embossed mark (2) with a 7 mm drill bit.

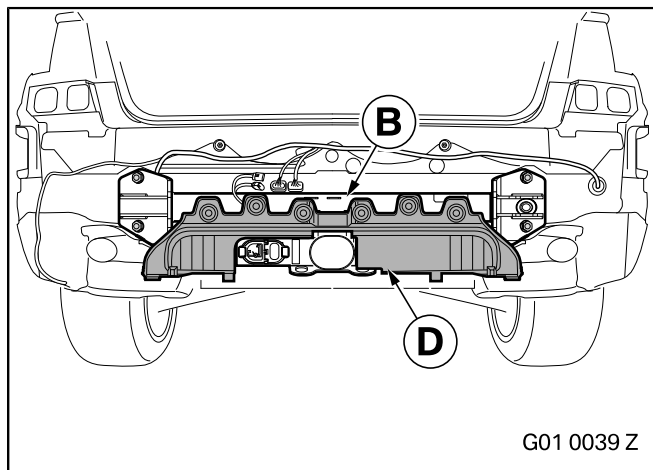
Cut the rubber grommet (1) at the cutting point (3).



Route branches **A3-A7** through the cut rubber grommet (1) into the interior of the car.

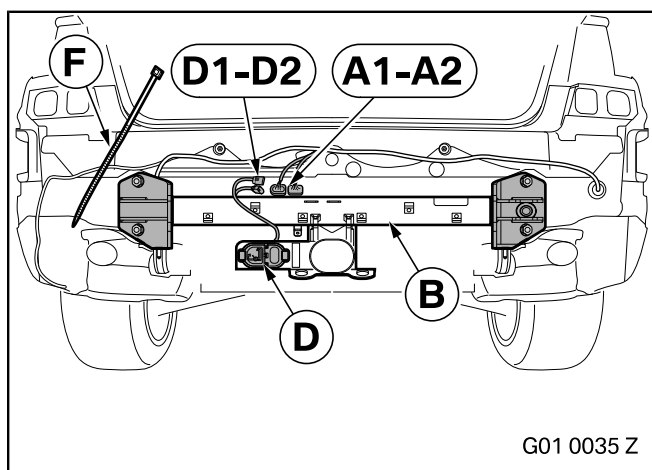
Seal the rubber grommet (1) and insert it in the opening so that it is watertight.

Secure retrofit wiring harness **A** to the standard vehicle wiring harness using cable ties **F**.



Install lower rear bumper reinforcement **H** on trailer tow hitch **B** with the fastening material available.

5. Installing the trailer tow hitch and connecting the retrofit wiring harness

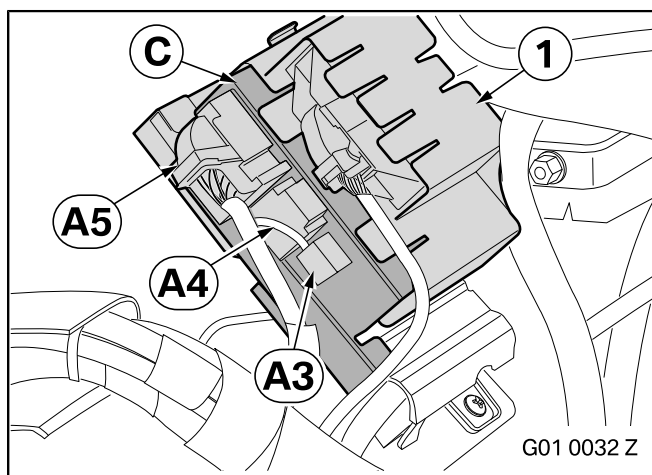


Insert trailer tow hitch wiring harness **D** in trailer tow hitch **B**.

Connect branches **A1-A2** to branches **D1-D2**.

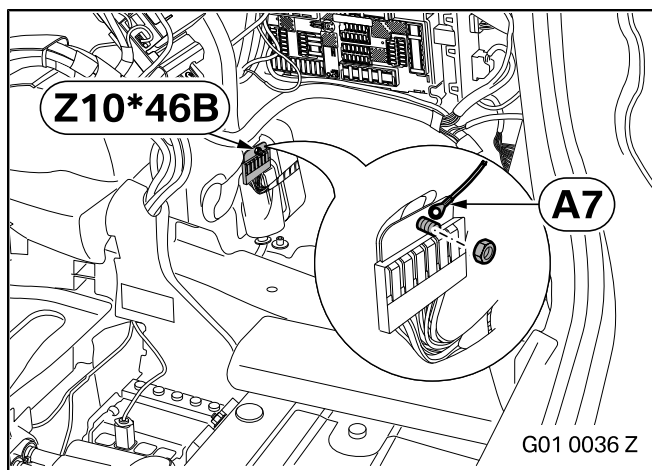
Insert lugs of plug connections into trailer tow hitch **B**.

Secure trailer tow hitch wiring harness **D** using cable ties **F**.

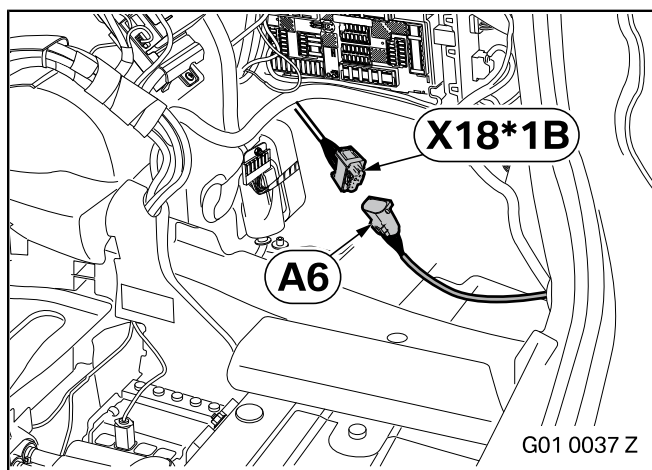


Connect branches **A3-A5** to AAG control unit **C**.

Plug control unit AAG **C** into the control unit holder (1).



Screw branches **A7** onto ground support point **Z10*46B**.



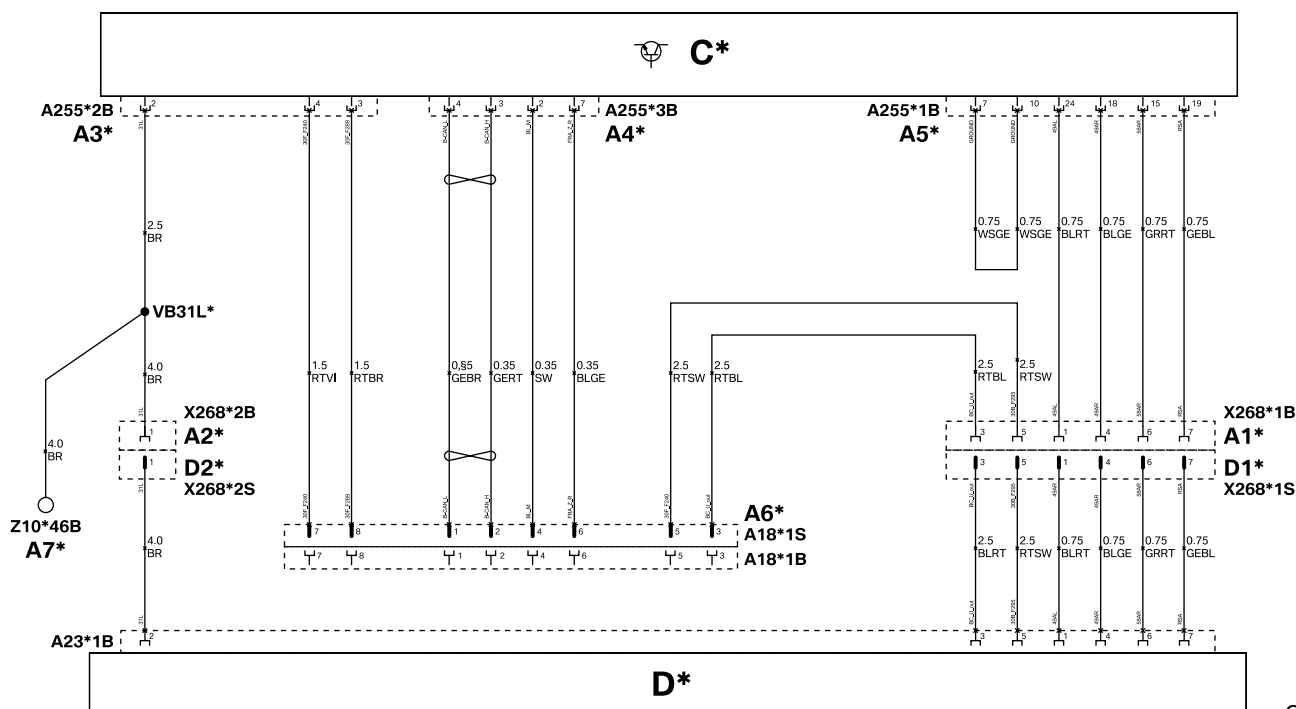
Connect branch **A6** to preparation plug **X18*1B** in the rear of the luggage compartment.

6. Concluding work and coding

The retrofit system requires programming/coding.

- Connect the battery
- Connect the battery charger to the car
- Connect the car to the ISTA workshop system
- Open the ISTA car programming system
- Please refer to the instructions provided in the ISTA application documentation for working with ISTA
- Select the "Removable trailer tow hitch" retrofit using the – **Retrofits** – path and work through the action plan created
- If necessary, carry out a vehicle test using the ISTA system, and note, or work through, any errors that has been recorded
- Conduct a function test
- Re-assemble the car
- Print out the customer information and give it to the customer

7. Wiring diagram



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Legend

- A1*** SW 8-pin socket housing, plug **X268*1B**, to branch **D1***
- A2*** SW 1-pin socket housing, plug **X268*2B**, to branch **D2***
- A3*** SW 6-pin socket housing, plug **X255*2B** to AAG control unit **D***
- A4*** SW 10-pin socket housing, plug **X255*3B** to AAG control unit **D***
- A5*** SW 24-pin socket housing, plug **X255*1B** to AAG control unit **D***
- A6*** SW 8-pin pin housing **X255*1S**, to preparation plug **X18*1B** in the rear right side of the luggage compartment
- A7*** M6 ring eyelet, to ground connection **Z10*46B**
- D1*** SW 8-pin pin housing, plug **X268*1S**, to branch **A1***
- D2*** SW 1-pin pin housing, plug **X268*2S**, to branch **A2***
- C*** AAG control unit
- D*** Trailer tow hitch wiring harness
- VB31L*** Terminal 31L connector

All of the designations marked with * apply only to these installation instructions or this wiring diagram.

Cable colours

BL	Blue	GR	Grey	RT	Red
BO	Bordeaux	L-GN	Light green	SW	Black
BR	Brown	NT	Natural	TR	Transparent
GE	Yellow	OR	Orange	VI	Violet
GN	Green	RO	Pink	WS	White