

Original BMW Parts and Accessories. Installation Instructions.



Removable Trailer Tow Hitch Retrofit 750 kg. BMW 1 Series (F40)

Retrofit kit number

71 60 2 475 260	Electrical add-on parts retrofit kit
51 12 5 A3D A34	Trailer tow hitch with removable ball

Installation time

The installation time is **approx. 4.0 hours**. This may vary depending on the condition of the car and its equipment package.

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 hours for electrical work.

To avoid unnecessary extra work and/or costs, please send an inquiry to the technical parts support team.

Quote the following information:

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

Please do not archive the printout of these installation instructions. The current version can be found in the EPC.

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

There is a type approval for the trailer tow hitch pursuant to **ECE-R55** with approval reference **E11*55R01/08*11814*00**.



This trailer tow hitch is approved for a maximum trailer load of **750 kg** and a nose weight of **75 kg**. ◀



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.

The TÜV documents 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 in the same way on RHD (right-hand drive) cars.

After the installation work, the retrofit must be programmed / coded via the **Retrofit** 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):

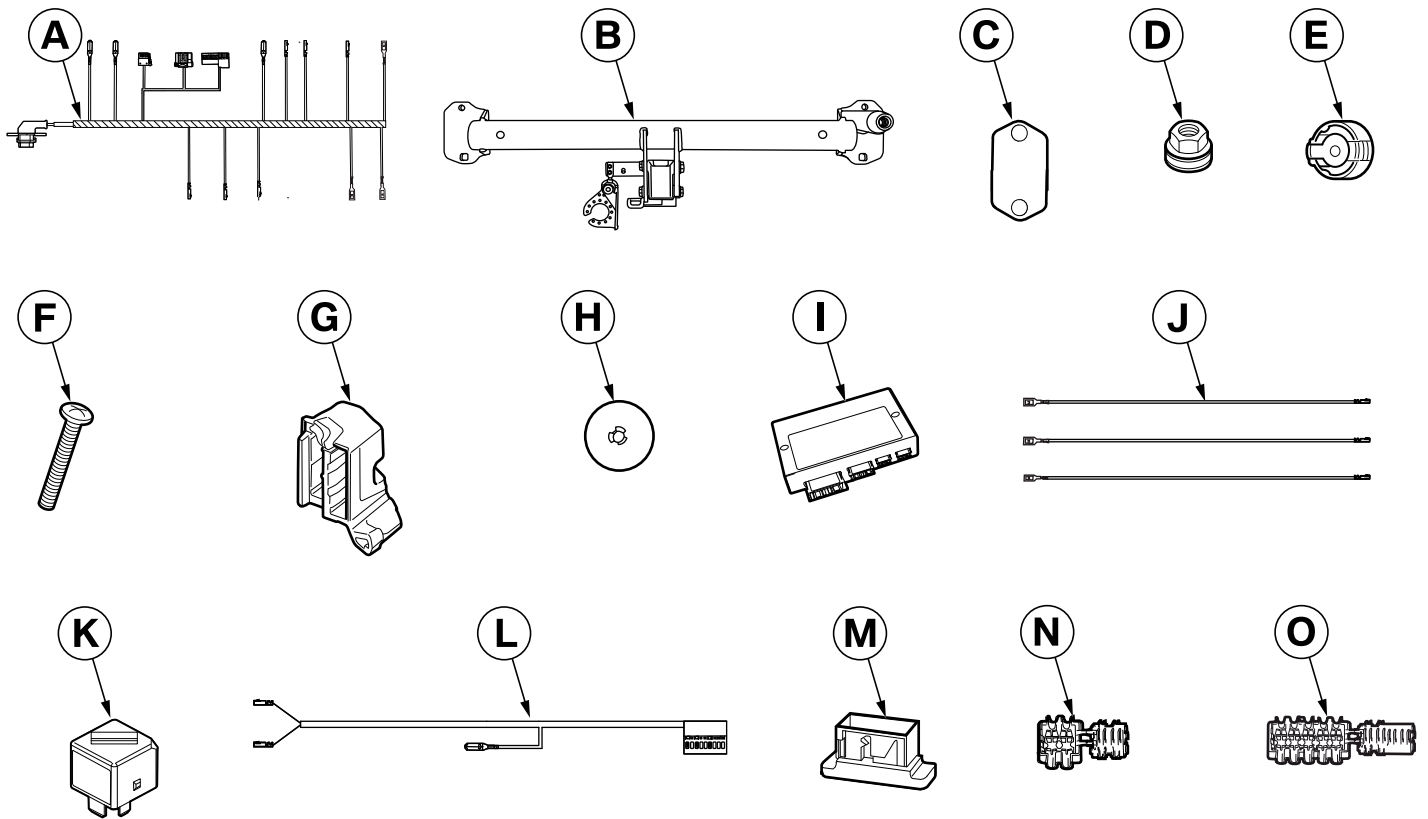
- AAG control unit **I**
- Luggage compartment cross member trim **Z**
- 2-pin socket housing **AA**
- 2-pin plug housing **AB**

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

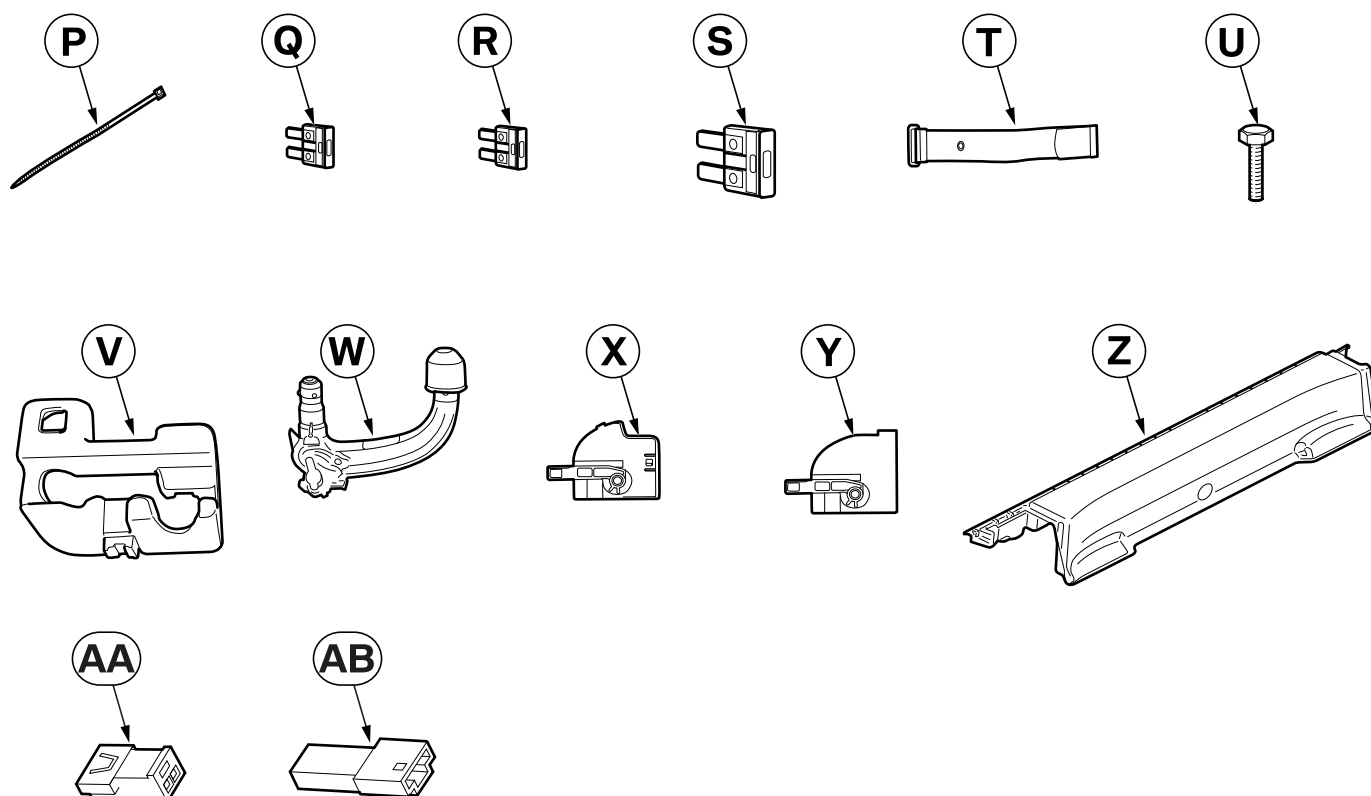


F40 0059 Z

Legend

- A** Retrofit wiring harness
- B** Trailer tow hitch
- C** Seal (2 x, supplied in the trailer tow hitch retrofit kit)
- D** M12 hexagon nut (4 x, supplied in the trailer tow hitch retrofit kit)
- E** Socket
- F** Pan-head screw M5 x 35 mm (3 x)
- G** Control unit holder for F40
- H** M6 plastic nut
- I** AAG control unit (not supplied in the retrofit kit)
- J** Power distributor wiring harness
- K** Relay
- L** Bus interface retrofit wiring harness
- M** Bus interface (only for cars without bus interface R2 already installed)
- N** 2-way miniature connector (3 x)
- O** 5-way miniature connector

1. Parts list for retrofit kit



F40 0060 Z

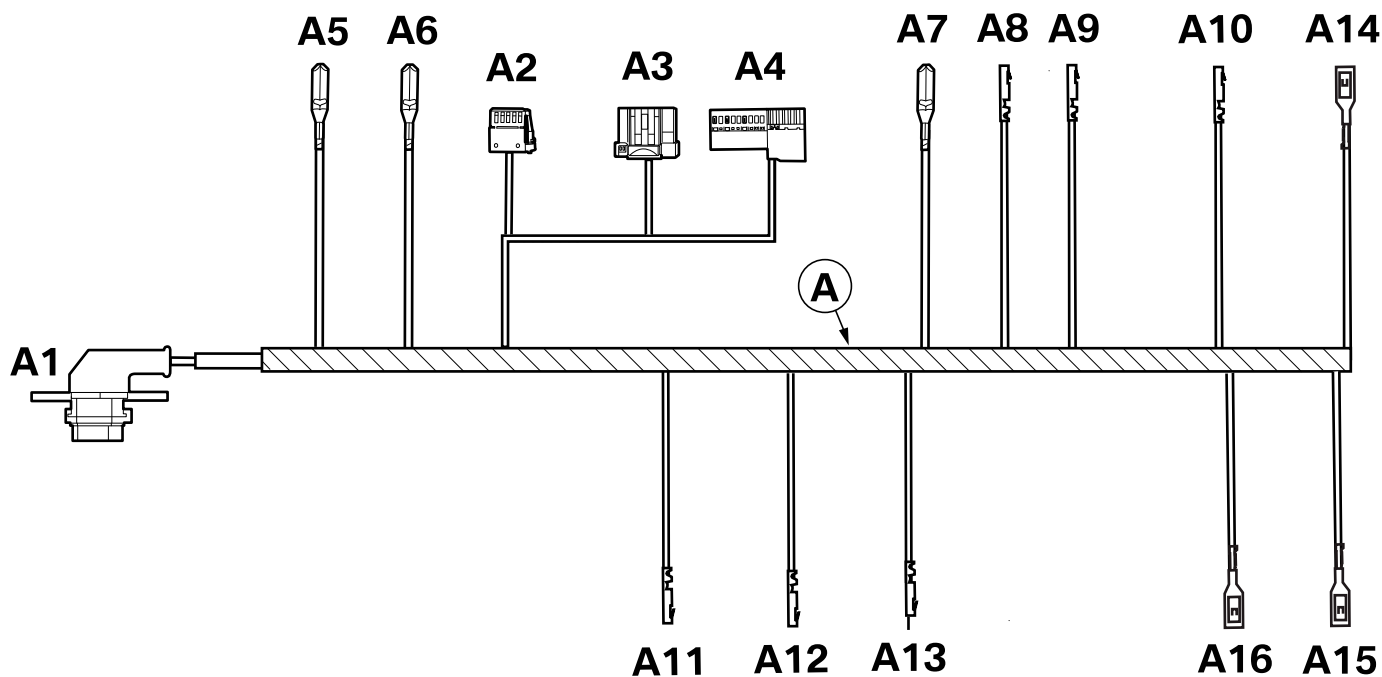
Legend

- P** 220 mm cable tie (20 x)
- Q** Mini 5 A fuse
- R** Fuse 20 A Mini (2 x)
- S** 20 A ATO fuse (2 x)
- T** Velcro strip
- U** Hexagon screw M6 x 20 mm
- V** Storage tray
- W** Ball head (supplied in the trailer tow hitch retrofit kit)
- X** SW 24-pin socket housing
- Y** SW 26-pin cover cap
- Z** Luggage compartment cross member trim (not supplied with the retrofit kit)
- AA** WB 2-pin socket housing (not supplied with the retrofit kit)
- AB** WB 2-way pin housing (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 11 ...
Instructions for handling the documents: Repair manual, technical data, tightening torques	61 00 ...
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 01
Boot wheel arch trim, right	51 47 161
Replace the luggage compartment trim cross member	51 47 ...
Roof pillar trim on the rear right	51 43 251
Rear right (interior) door sill cover strip	51 47 030
Release the bottom right B-pillar trim	51 43 ...
Front right sill cover strip	51 47 000
Bottom right dashboard trim	51 45 195
Right-hand glove compartment with housing	51 16 366
Bottom right A-pillar trim	51 43 075
Release the front right-hand power distributor	61 14 ...
Rear bottom bumper guide (no longer required)	51 12 827

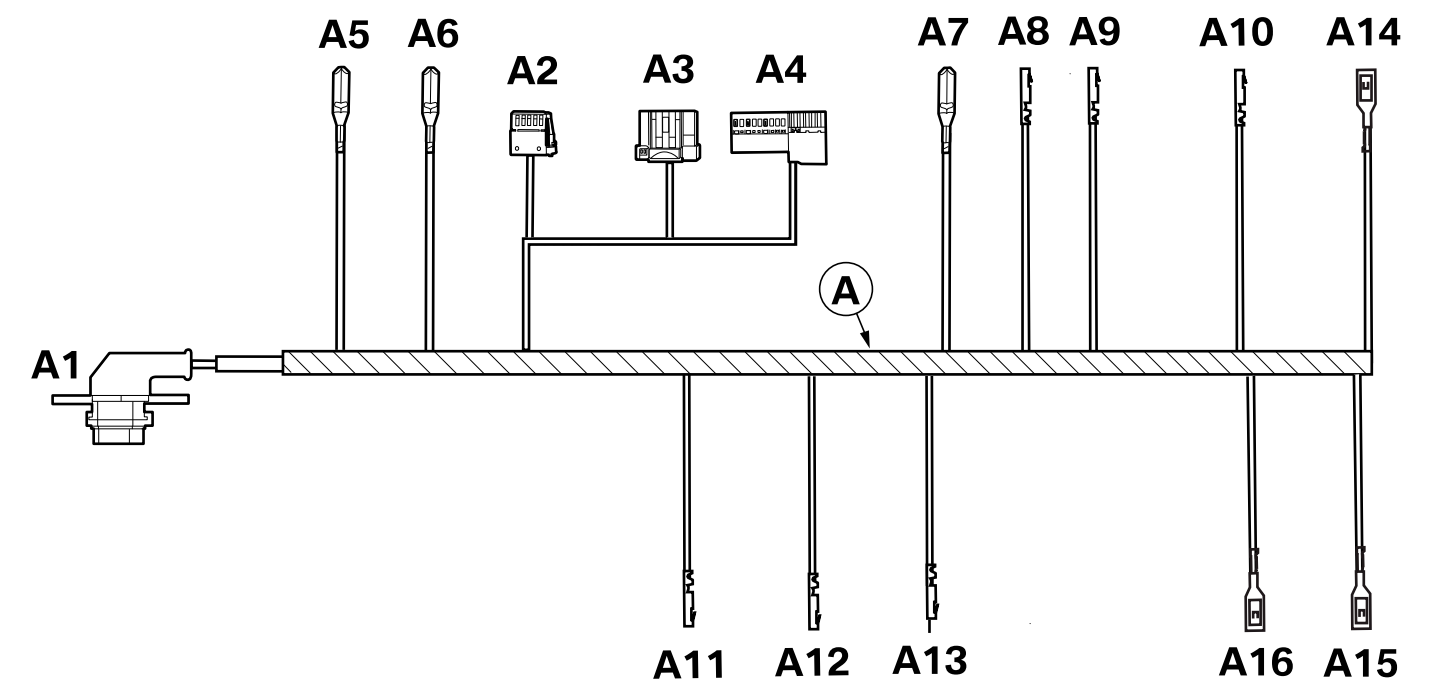
3. Retrofit wiring harness connection diagram



F40 0006 Z

Position	Designation	Signal	Cable colour/ cross-section	Connection location in the car	Abbreviation/ slot
A	Retrofit wiring harness	---	---	---	---
A1	SW 13-pin socket housing	---	---	To trailer tow hitch B	X23*1B
A2	SW 10-pin socket housing	---	---	To AAG control unit I	A255*3B
A3	WS 6-pin socket housing	---	---	To AAG control unit I	A255*2B
A4	SW 24-pin internal socket housing	---	---	To AAG control unit I	A255*1B
A5	Comb connector blade terminal contact	Terminal 31	BR 2.5 mm ²	To ground support point, right-hand rear luggage compartment	Z10*7B
A6	Comb connector blade terminal contact	Terminal 31	BR 2.5 mm ²	To ground support point, right-hand rear luggage compartment	Z10*7B
A7	Comb connector blade terminal contact	Terminal 31	BR/SW 0.75 mm ²	To top right rear entry ground support point	Z10*14B
A8	Socket contact	K_CAN2_H	RT 0.35 mm ²	To bus interface R2/M	R2*1B PIN 9
A9	Socket contact	K_CAN2_L	GE 0.35 mm ²	To bus interface R2/M	R2*1B PIN 22
A10	Socket contact	BL_M	SW/GE 0.35 mm ²	To E filter E67	E67*2B PIN 3
A11	Socket contact	BL_M	SW/GE 0.35 mm ²	To BDC control unit A258	A258*5B PIN 32
A12	Socket contact	FRA_Z_R	WS/GR 0.35 mm ²	To BDC control unit A258	A258*3B PIN 37

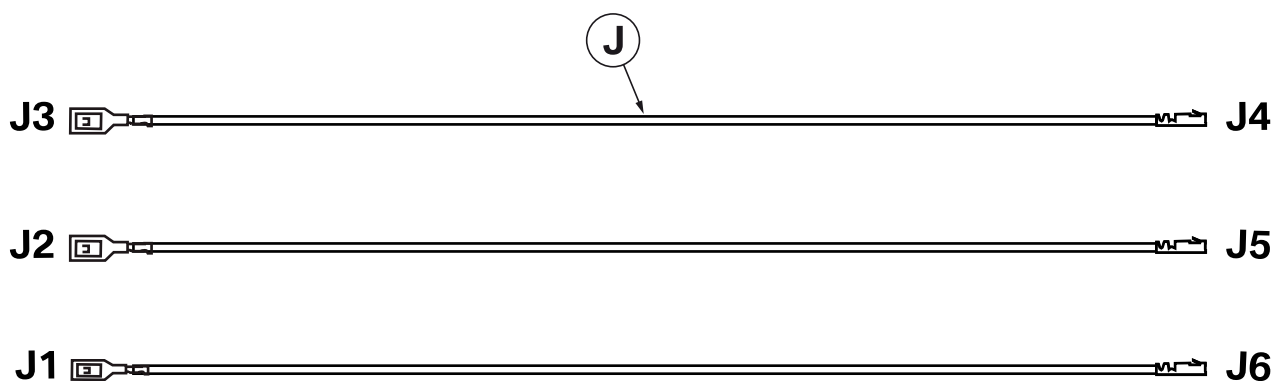
3. Retrofit wiring harness connection diagram



F40 0006 Z

Position	Designation	Signal	Cable colour/ cross-section	Connection location in the car	Abbreviation/ slot
A13	Pin contact	FRA_Z_R	WS/GR 0.35 mm²	To plug housing AB	PIN 1
A14	Socket contact	Termi- nal 30B	RT/SW 2.5 mm²	To front right power distributor Z7	Z7*4B PIN 28
A15	Socket contact	Termi- nal 30F	RT/VI 2.5 mm²	To front right power distributor Z7	Z7*3B PIN 17
A16	Socket contact	Termi- nal 30F	RT/GE 2.5 mm²	To front right power distributor Z7	Z7*3B PIN 18

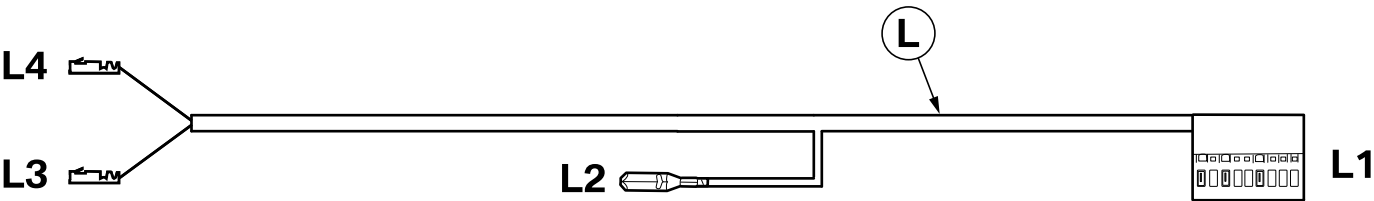
4. Power supply wiring harness connection diagram



F40 0022 Z

Position	Designation	Signal	Cable colour/ cross-section	Connection location in the car	Abbreviation/ slot
J	Power supply wiring harness	---	---	---	---
J1	Socket contact	Terminal 30F	RT/SW 0.35 mm ²	To front right power distributor Z7	Z7*3B PIN 15
J2	Socket contact	Terminal 30F_ON	GN/BL 0.5 mm ²	To front right power distributor Z7	Z7*3B PIN 213
J3	Socket contact	Terminal 30F_OFF	GN/BR 0.5 mm ²	To front right power distributor Z7	Z7*3B PIN 212
J4	Socket contact	Terminal 30F_OFF	GN/BR 0.5 mm ²	To LIN module A465	A465*1B PIN 13
J5	Socket contact	Terminal 30F_ON	GN/BL 0.5 mm ²	To LIN module A465	A465*1B PIN 15
J6	Socket contact	Terminal 30F	RT/SW 0.5 mm ²	To LIN module A465	A465*1B PIN 25

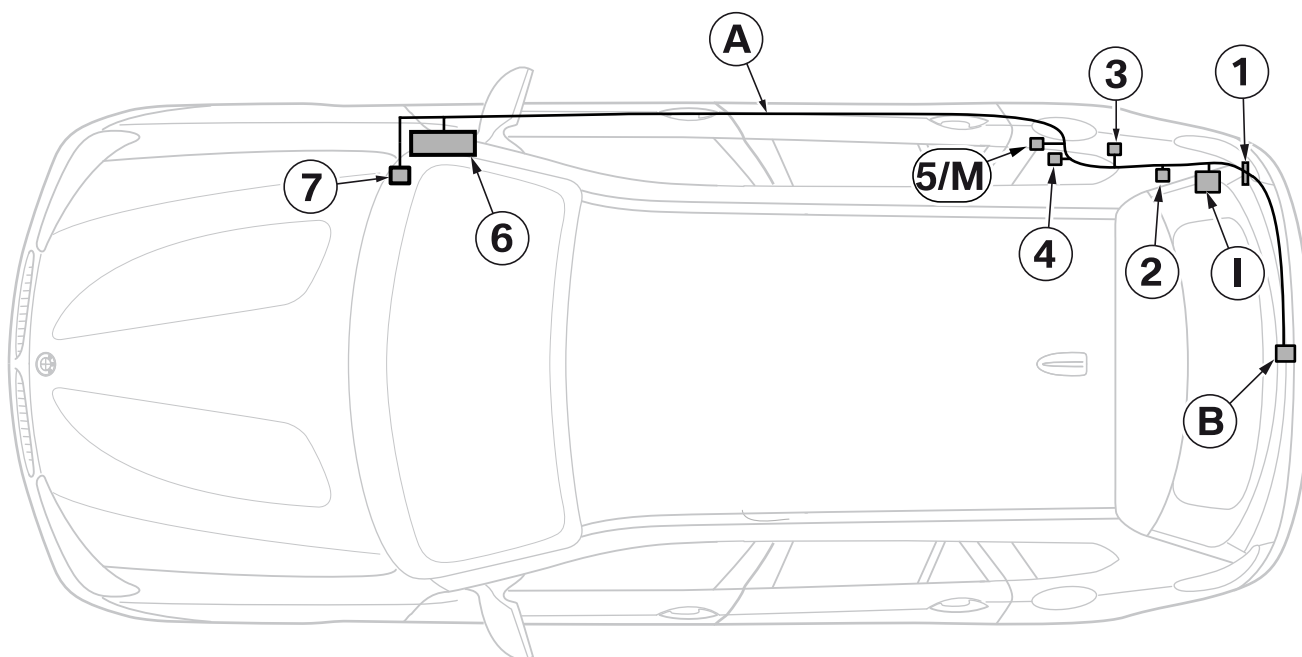
5. Bus interface retrofit kit connection diagram



F40 0042 Z

Position	Designation	Signal	Cable colour/ cross-section	Connection location in the car	Abbreviation/ slot
L	Bus interface retrofit wiring har- ness	---	---	---	---
L1	SW 26-pin internal socket housing	---	---	To bus interface M	R2*1B
L2	Comb connector blade terminal contact	Terminal 31	BR/SW 0.35 mm²	To top right rear entry ground support point	Z10*14B
L3	Socket contact	K2-CAN_L	GE 0.35 mm²	To BDC A258	A258*8B PIN 49
L4	Socket contact	K2-CAN_H	RT 0.35 mm²	To BDC A258	A258*8B PIN 50

6. Installation and cabling diagram for F40 only

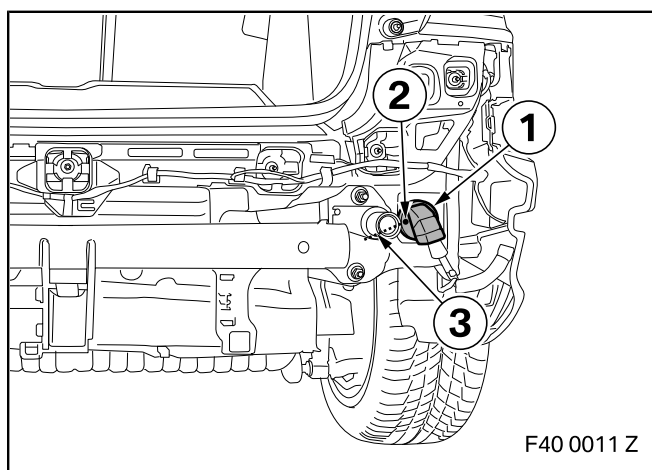


F40 0067 Z

- A** Retrofit wiring harness
- B** Trailer tow hitch
- I** AAG control unit

- 1** Rubber grommet
- 2** Ground support point **Z10*7B**
- 3** Suppression filter **E67**
- 4** Ground support point **Z10*14B**
- 5/M** Bus interface **R2**
- 6** BDC **A258**
- 7** Front right power distributor **Z7**

7. Installing the trailer tow hitch

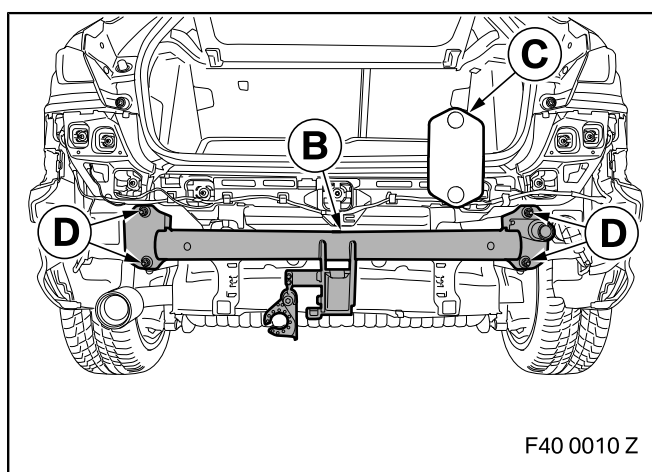


! Make sure that no cables behind drilling point are damaged when you drill the holes. ◀

Remove the rubber grommet (1).

Drill a hole in the rubber grommet (1) on the embossed mark (2) with a 10 mm drill bit.

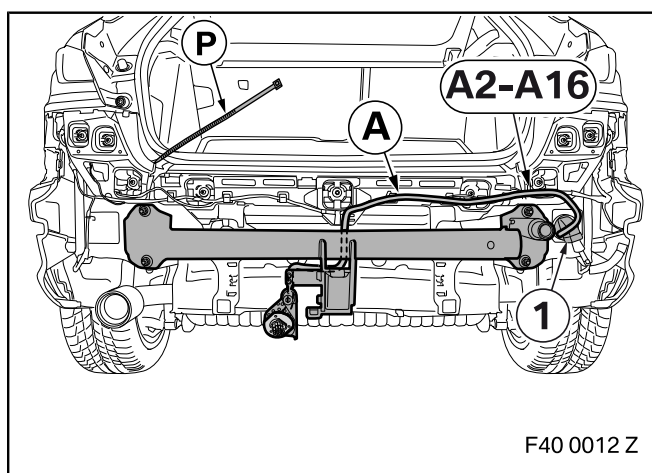
Cut the rubber grommet (1) at the cutting point (3).



▷ Note the tightening torque value: 108 Nm. ◀

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

Secure the trailer tow hitch **B** using hexagon nut **D**.

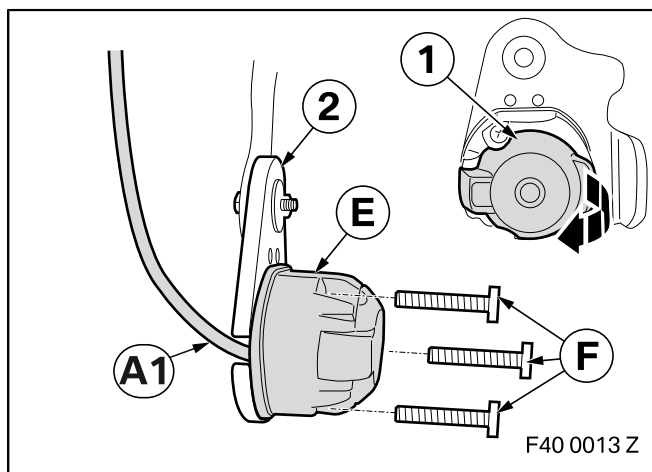


Route retrofit wiring harness **A** behind the trailer tow hitch **B** to the right-hand side of the car.

Route branches **A2-A16** 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** using cable ties **P**.

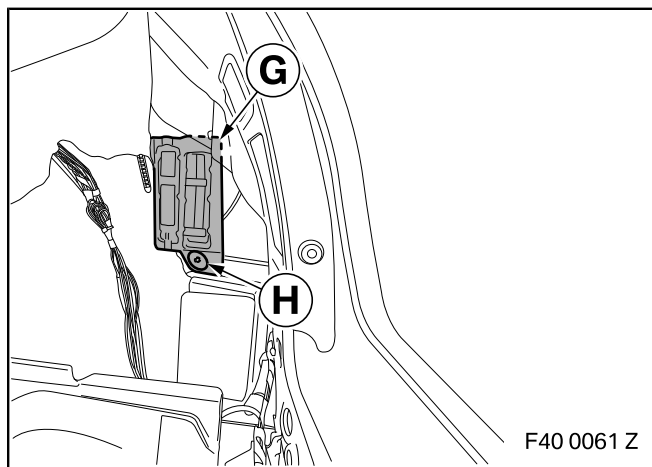


▷ It must be possible to open the socket cover (1) to the left. ◀

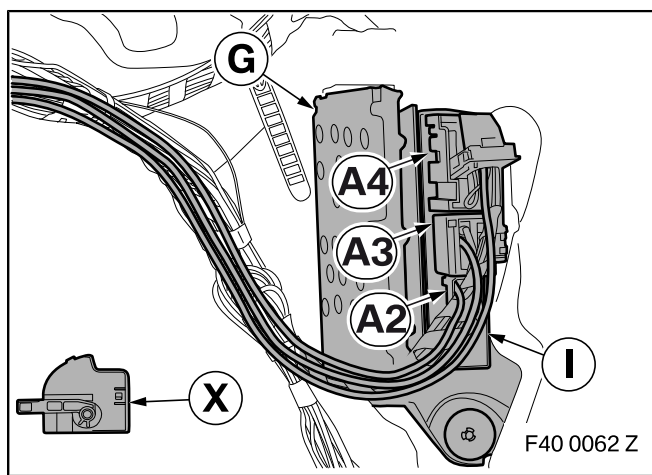
Connect branch **A1** to socket **E**.

Secure the socket **E** to the holder (2) using screws **F**.

8. Installing and connecting the retrofit wiring harness



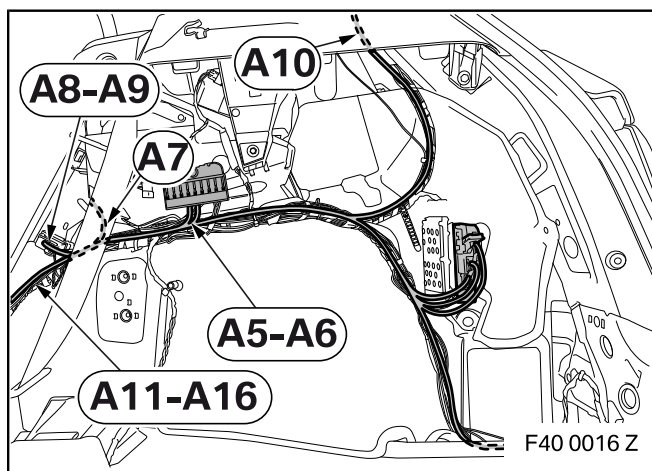
Fit the control unit holder **G** as shown in the right-hand side of the boot and secure it with the nut **H**.



Insert control unit AAG **I** into the control unit holder **G**.

Connect branches **A2-A3** to control unit AAG **I** as shown.

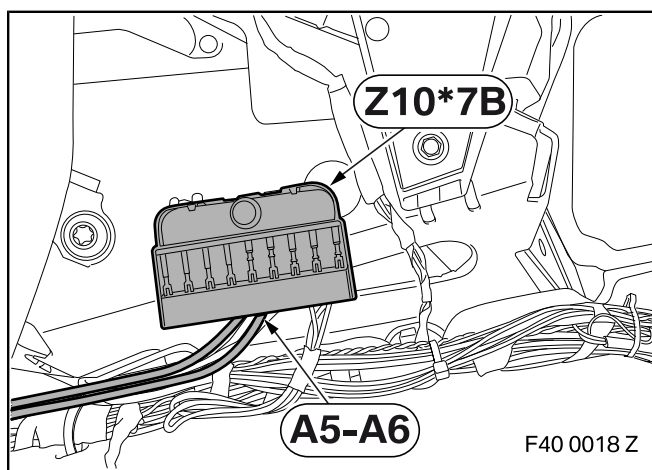
Install socket housing **X** on branch **A4** and connect it to AAG control unit **I**.



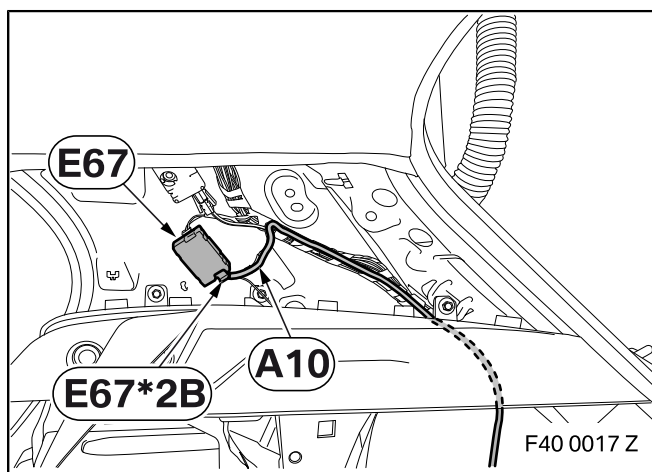
Route branches **A5-A16** as follows:

- Branches **A5-A6** to the location of ground support point **Z10*7B**
- Branch **A7** to the location of ground support point **Z10*14B**
- Branches **A8-A9** to the location of bus interface **R2** on the right C pillar
- Branch **A10** to the location of suppression filter **E67**
- Branches **A11-A12** to the BDC location **A258** at the front right
- Branch **A13** to the door disconnect plug at the front right **X5*1B**
- Branches **A14-A16** to the location of power distributor **Z7** at the front right

8. Installing and connecting the retrofit wiring harness



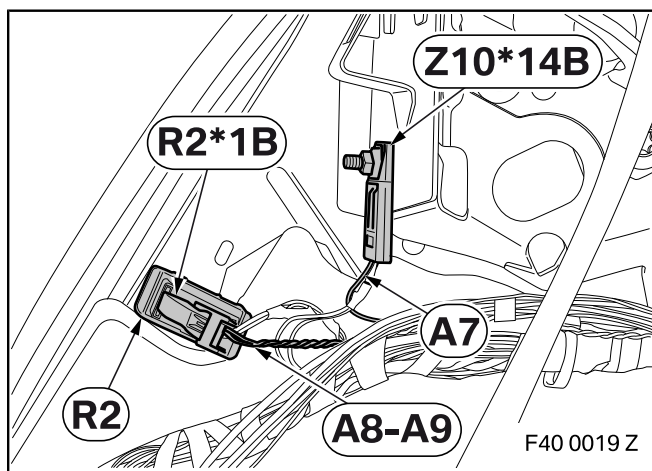
Connect branches **A5-A6**, BR cable, to ground support point **Z10*7B**.



Route branch **A10**, SW/GE cable, to the location of suppression filter **E67**.

Disconnect, insulate and tie back the standard SW cable from **E67*2B**.

Connect branch **A10**, SW/GE cable, to PIN 3 of plug **E67*2B**.

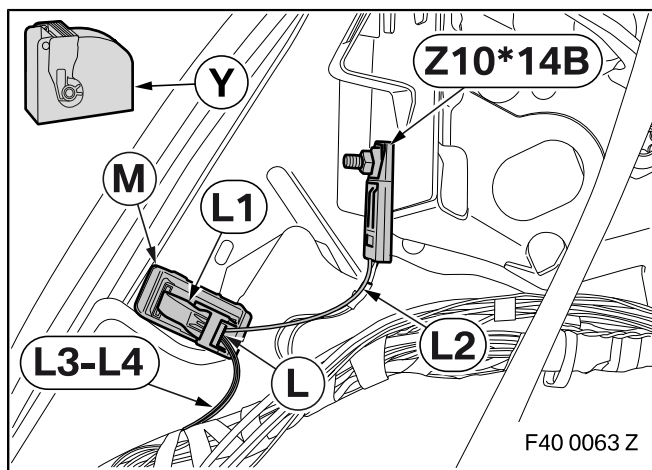


Cars with an existing R2 bus interface only

Connect branch **A7** to ground support point **Z10*14B**.

Connect branches **A8-A9** as follows to plug **R2*1B** of bus interface **R2**, SW 26-pin socket housing:

- Branch **A8**, RT cable, to PIN 9
- Branch **A9**, GE cable, to PIN 22

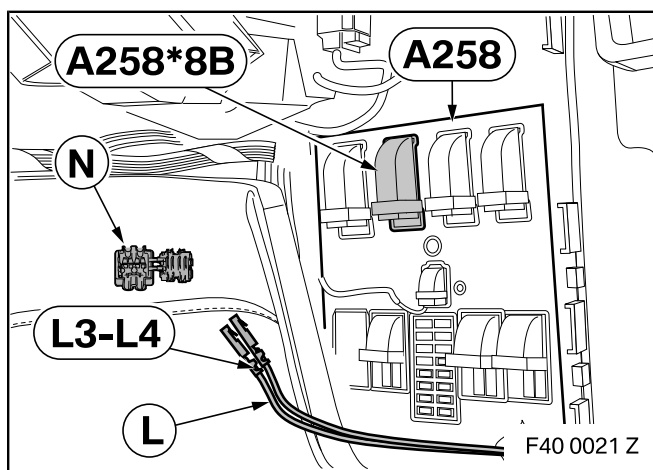


Cars without bus interface R2 already installed

Connect retrofit wiring harness **L** as follows:

- Install cover cap **Y** on internal socket housing **L1** and connect to bus interface **M**.
- Connect branch **L2** to ground support point **Z10*14B**
- Route branches **L3-L4** to location of BDC **A258**

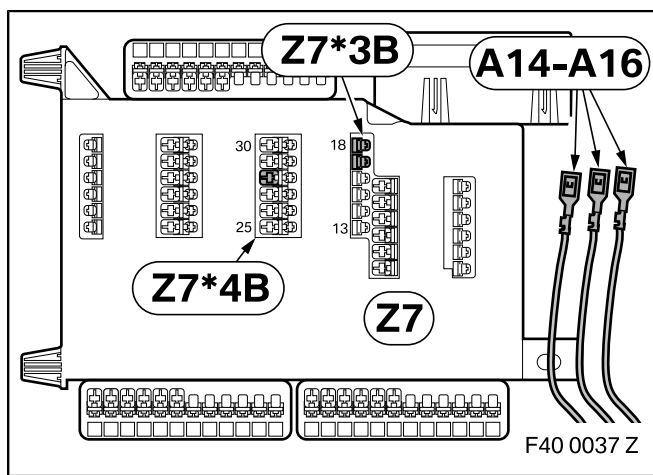
8. Installing and connecting the retrofit wiring harness



☐ If PIN 49 and PIN 50 on plug **A258*8B** of the BDC **A258** are occupied, connect branches **L3-L4** to the cables of the same colours using 2-way miniature connectors **N**. ◀

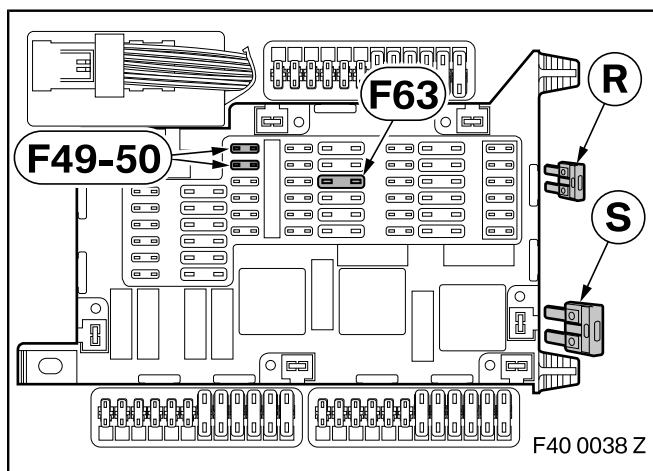
Connect branches **L3-L4** of retrofit wiring harness **L** as follows to plug **A258*8B**, 54-pin BL socket housing of BDC **A258**:

- Branch **L3**, GE cable, to PIN 49
- Branch **L4**, RT cable, to PIN 50



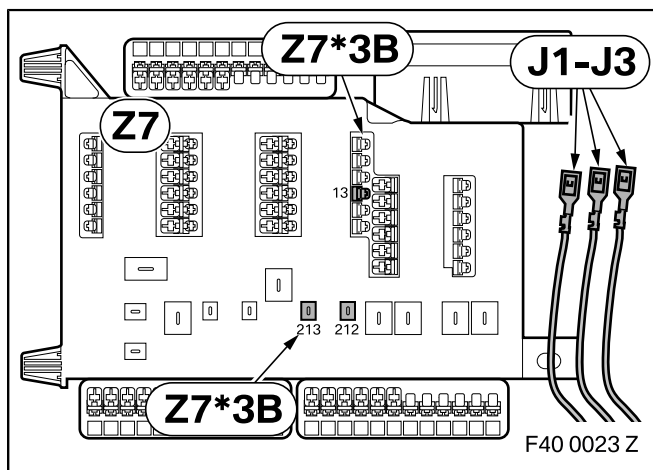
Connect branches **A14-A16** to the front right power distributor **Z7** as follows:

- Branch **A14**, RT/SW cable, to PIN 28 in plug **Z7*4B**
- Branch **A15**, RT/VI cable, to PIN 17 in plug **Z7*3B**
- Branch **A16**, RT/GE cable, to PIN 18 in plug **Z7*3B**



Insert fuse **R** into slot F49 and F50 in power distributor **Z7**.

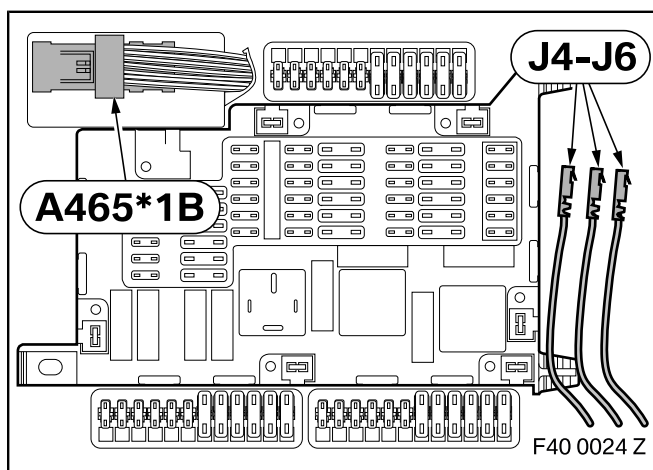
Insert fuse **S** into slot F63 in power distributor **Z7**.



Connect branches **J1-J3** to the front right power distributor **Z7** as follows:

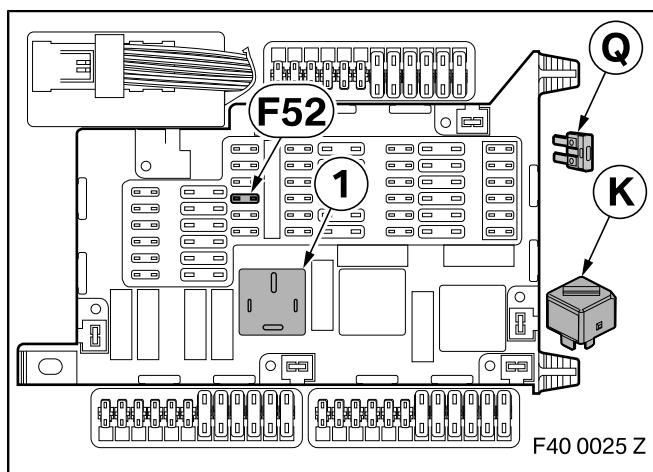
- Branch **J1**, RT/SW cable, to PIN 15 in plug **Z7*3B**
- Branch **J2**, GN/BL cable, to PIN 213 in plug **Z7*3B**
- Branch **J3**, GN/BR cable, to PIN 212 in plug **Z7*3B**

8. Installing and connecting the retrofit wiring harness



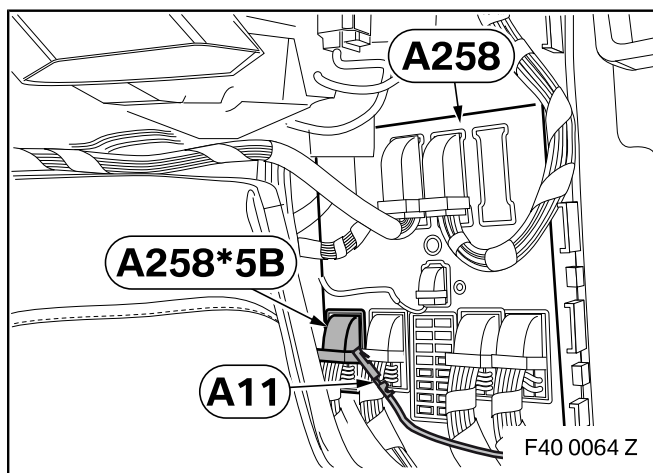
Connect branches **J4-J6** to the front right LIN module plug **A465*1B** as follows:

- Branch **J4**, GN/BR cable, to PIN 13 in plug **A465*1B**
- Branch **J5**, GN/BL cable, to PIN 15 in plug **A465*1B**
- Branch **J6**, RT/SW cable, to PIN 25 in plug **A465*1B**



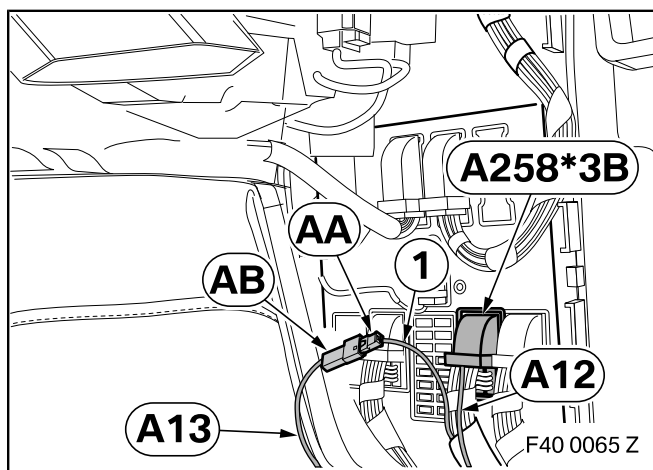
Insert fuse **Q** into slot **F52** in power distributor **Z7**.

Insert relay **K** into slot 1.



Disconnect, insulate and tie back the existing cable.

Connect branch **A11**, SW/GE cable, to PIN 32 in plug **A258*5B**, WS 42-pin socket casing.

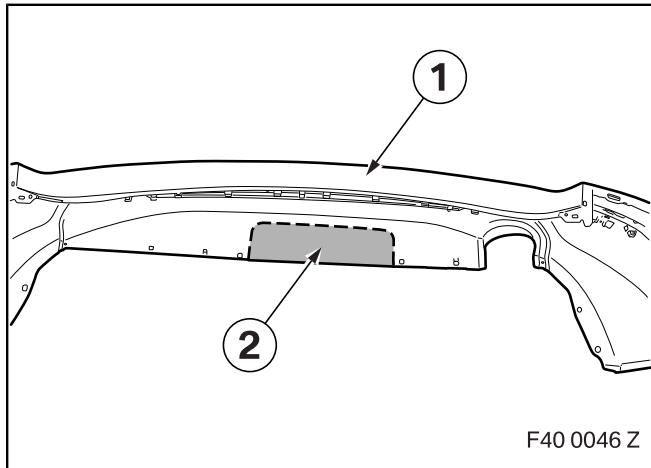


Disconnect the WS/GR cable (1) from PIN 37 of plug **A258*3B**, WS 54-pin socket housing, and connect it to PIN 1 of WB 2-pin socket housing **AA**.

Connect branch **A12**, WS/GR cable, to PIN 37 in plug **A258*3B**, WS 54-pin socket casing.

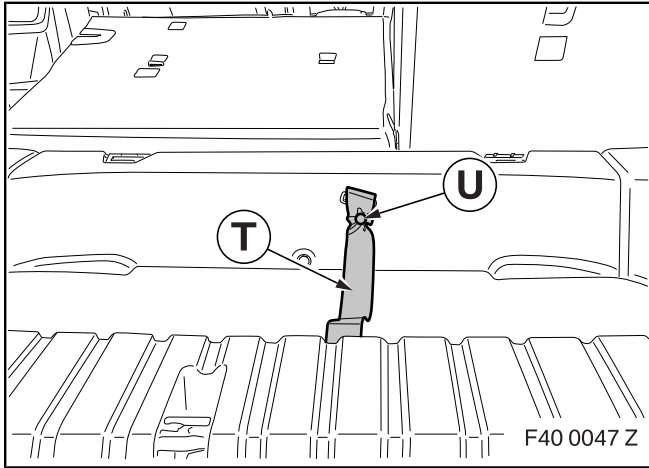
Connect branch **A13**, WS/GR cable, to PIN 1 in WB 2-pin plug casing **AB**.

8. Installing and connecting the retrofit wiring harness

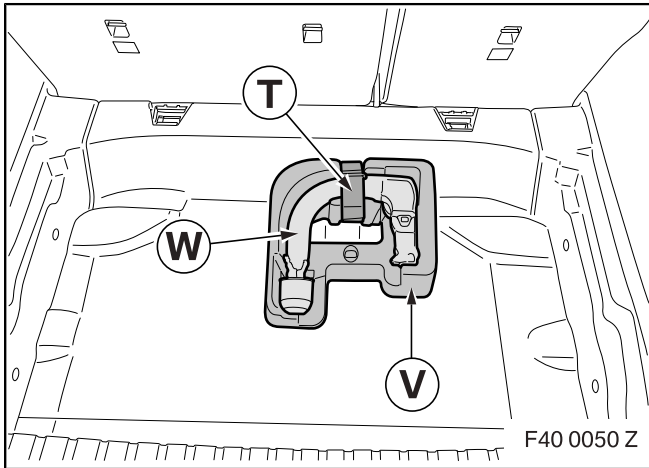


Cut out the cut-out (2) on the rear bumper trim (1) at the prepared point.

9. Installing the oddments tray



Secure the Velcro strip **T** to the luggage compartment cross member using hexagon screw **U**.



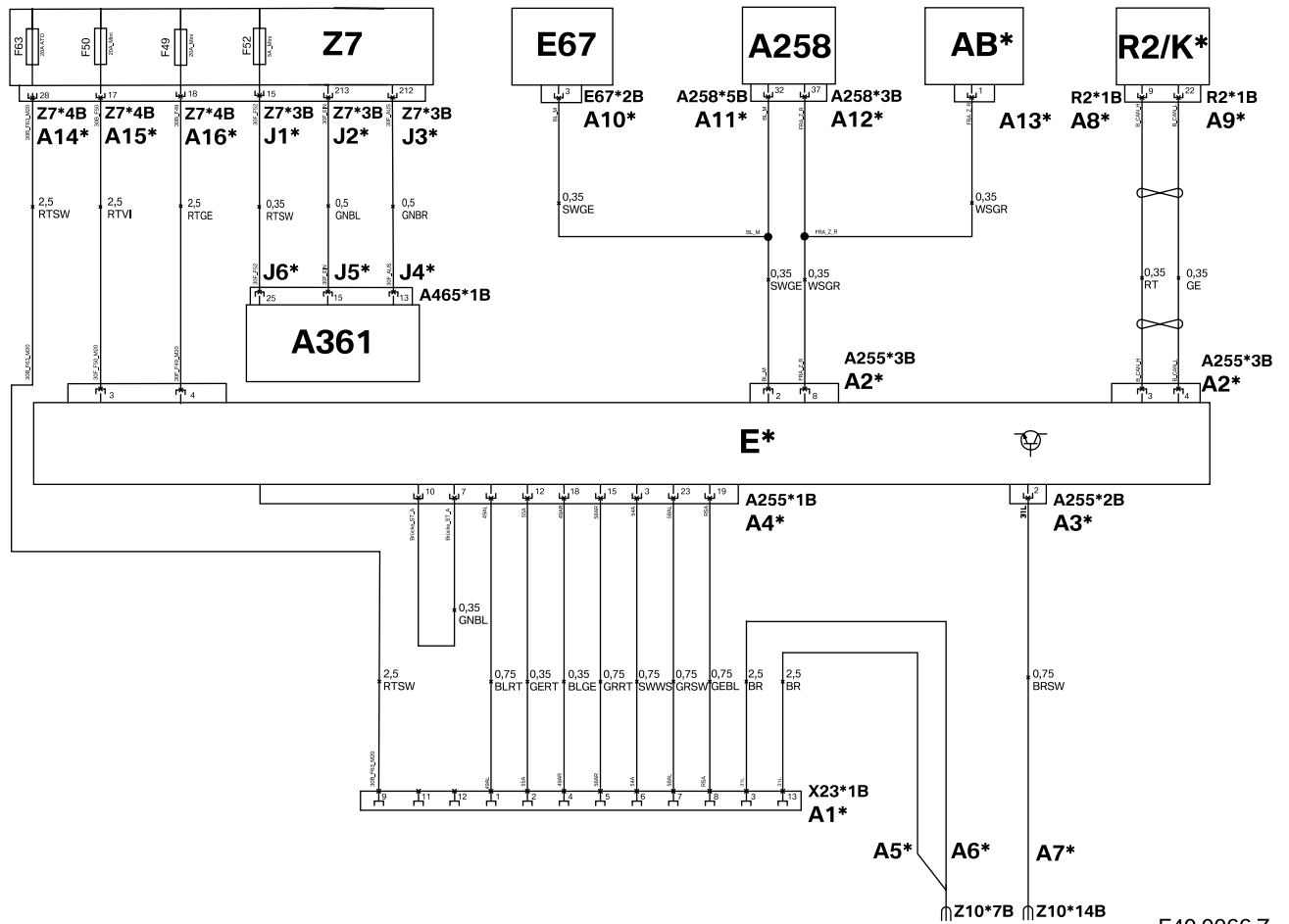
Insert the ball head **W** into the oddments tray **V** and lash tightly in place using Velcro strip **T**.

10. 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/AIR application documentation for working with ISTA/AIR
- Select the "Pivot-mounted trailer tow hitch" retrofit via the – **Retrofits** – path and work through the created action plan
- 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

11. Wiring diagram

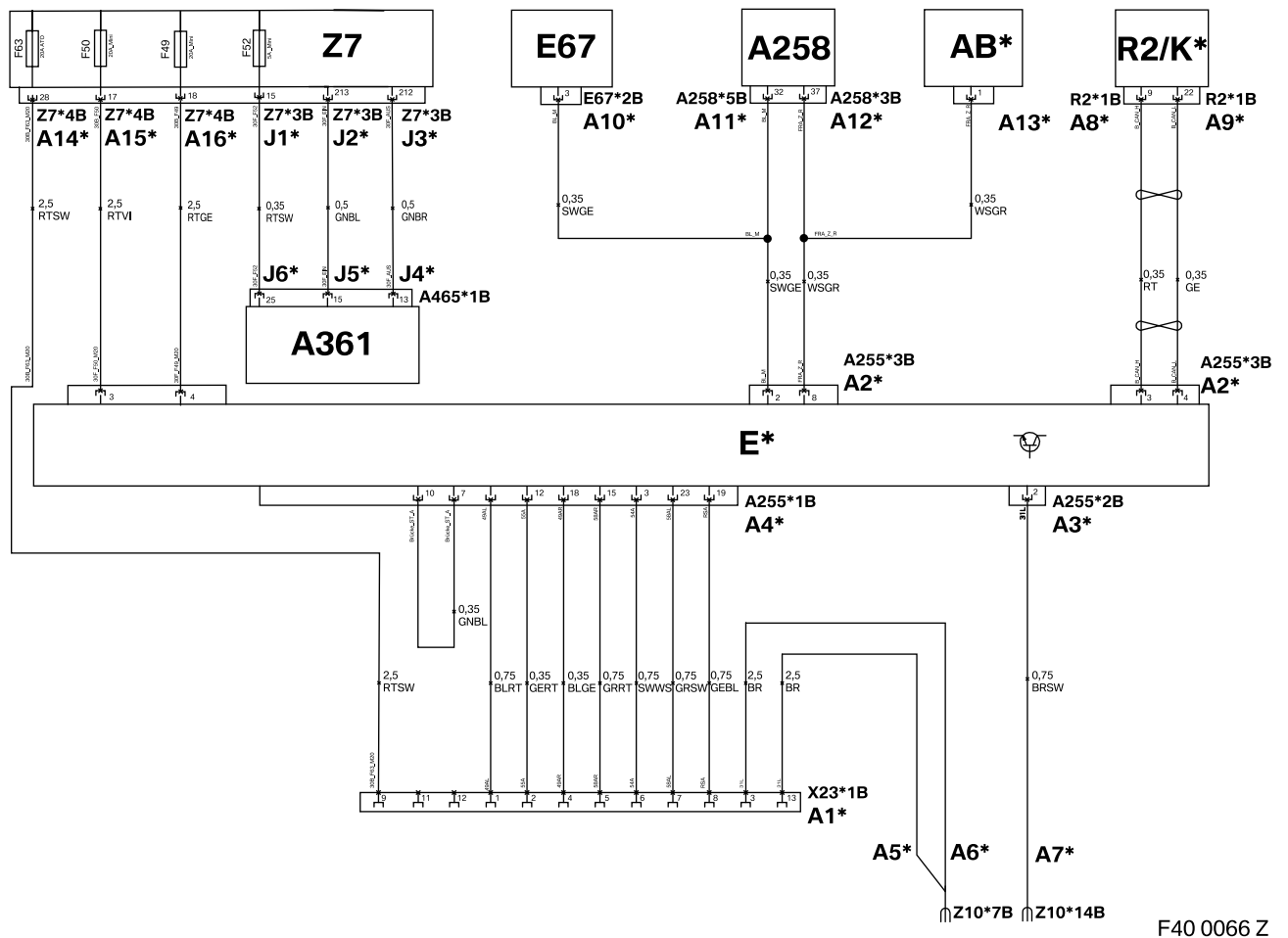


F40 0066 Z

Legend

- A1*** SW 13-pin socket housing, plug, to trailer tow hitch **B***
- A2*** SW 10-pin socket housing, plug **X255*3B** to AAG control unit **I***
- A3*** SW 6-pin socket housing, plug **X255*2B** to AAG control unit **I***
- A4*** SW 24-pin socket housing, plug **X255*1B** to AAG control unit **I***
- A5*** With ring eyelet to earth support point **Z10*7B**
- A6*** With ring eyelet to earth support point **Z10*7B**
- A7*** With ring eyelet to earth support point **Z10*14B**
- A8*** Socket contact to plug **R2*1B**, SW socket housing, to bus interface **R2/K***
- A9*** Socket contact to plug **R2*1B**, SW socket housing, to bus interface **R2/K***
- A10*** Socket contact, to plug **E67*1B**, VI 3-pin socket housing on suppression filter **E67**
- A11*** Socket contact, to plug **A258*5B**, WS 42-pin socket housing, on BDC **A258**
- A12*** Socket contact, to plug **A258*3B**, SW 54-pin socket housing, on BDC **A258**
- A13*** Pin contact, to plug **AB**, WB 2pin plug housing
- A14*** Socket contact, to plug **Z7*4B** of power distributor **Z7**
- A15*** Socket contact, to plug **Z7*4B** of power distributor **Z7**
- A16*** Socket contact, to plug **Z7*4B** of power distributor **Z7**
- J1*** Socket contact, to plug **Z7*3B** of power distributor **Z7**
- J2*** Socket contact, to plug **Z7*3B** of power distributor **Z7**
- J3*** Socket contact, to plug **Z7*3B** of power distributor **Z7**
- J4*** Socket contact, to plug **A465*1B**, SW 32-pin socket housing, on LIN module **A361**
- J5*** Socket contact, to plug **A465*1B**, SW 32-pin socket housing, on LIN module **A361**
- J6*** Socket contact, to plug **A465*1B**, SW 32-pin socket housing, on LIN module **A361**

11. Wiring diagram



F40 0066 Z

- B*** Trailer tow hitch
E* AAG control unit
K* Bus interface (only for cars without bus interface **R2** already installed)
AB* WB 2-pin plug housing

- | | |
|----------------|---------------------------------|
| A258 | BDC control unit |
| E67*2B | Suppression filter |
| R2 | Bus interface |
| Z2 | Rear right power distributor |
| Z10*46B | Rear right ground support point |
| Z44 | Front right power distributor |

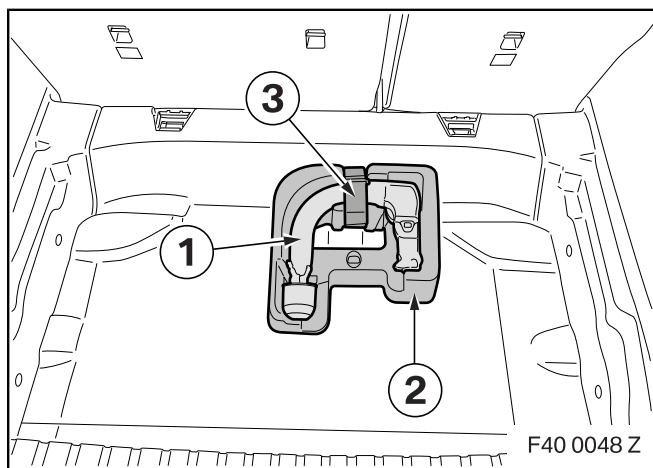
All of the designations marked with * apply only to these installation instructions or this wiring diagram.

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

12. Customer information

! The ball head must be removed when not in use and securely stowed in the lower loading space floor of your car. Never carry the ball head (1) loose and unsecured in the boot.



Please place the ball head (1) in the oddments tray (2) and lash it securely with the Velcro strip (3).

13. Statutory regulations under ECE Directive R55

Appendix VII

Regulations for the homologation of a vehicle for the optional installation of mechanical connection devices (trailer tow hitches)

1. General regulations

1.1

The vehicle manufacturer determines which types and classes of connecting devices can be fitted onto the vehicle type, and specifies the values D, V ¹, S or U (if applicable) which are based on the design of the vehicle type in combination with the planned type of connecting devices. The code values D, V, S or U of the connecting devices approved in accordance with this directive must be greater than or equal to those specified for the vehicle type in question.

1.2

The connection devices must be installed on the vehicle type in accordance with the installation instructions specified by the vehicle manufacturer and in compliance with the manufacturer of the connection device and the Technical Service. The vehicle manufacturer defines the permitted points for securing the connection devices to the vehicle type and, if necessary, the mountings, installation plates, etc. that must be mounted on this specific vehicle type.

1.3

Only automatic hitches may be used for hitching up trailers with a gross weight of more than 3.5 tonnes to motor vehicles; these automatic hitches must permit an automatic hitching procedure.

1.4

When connecting devices of class B, D, E and H are fitted to trailers, it is always necessary to assume a value of 32 tonnes for the total mass T of the towing vehicle in order to calculate the D value. If the D value of the connecting device for T = 32 tonnes is not sufficient, the resultant restriction relating to the mass T of the towing vehicle and the mass of the vehicle combination (towing vehicle and trailer) must be specified in the approval sheet for the trailer.

¹ The V value must only be specified for vehicles with a maximum technical gross weight in excess of 3.5 tonnes.

13. Statutory regulations under ECE Directive R55

2. Special regulations

2.1

Fitting coupling balls and towing brackets (ball head with coupling device)

2.1.1

When coupling balls with holders are fitted to a vehicle type of class M1, class M2 below 3.5 tonnes or class N1, the clearance and height dimensions shown in figures **1** and **2** must be maintained. This requirement does not apply to off-road vehicles in the sense of Appendix II of Directive 92/53/EEC. Unspecified details are to be selected to suit the appropriate purpose. The dimensions and angles must be checked using suitable measuring instruments.

2.1.2

The vehicle manufacturer must supply installation instructions for coupling balls and towing brackets. These installation instructions must specify whether the attachment area requires reinforcing.

2.1.3

It must also be possible to couple and uncouple coupling heads when the longitudinal axis of the coupling head in relation to the centre line of the coupling ball and towing bracket

- a) is turned horizontally through $b = 60^\circ$ to the right or left (see Figure **2**),
- b) is turned vertically through $a = 10^\circ$ to the right or left (see Figure **1**),
- c) is rotated axially through 10° to the right or left.

2.1.4

The mounted coupling ball must not obscure the rear registration plate or the space provided for the rear registration plate; otherwise, a ball that can be removed without requiring special tools must be used.

2.2

Installing towing ball couplings

2.2.1

Class B coupling heads may be used with trailers of a maximum gross weight of up to 3.5 tonnes. Towing ball couplings must be installed in such a way that the coupling point of the trailer is $430 \text{ mm} \pm 35 \text{ mm}$ above the horizontal wheel contact level when the trailer is horizontal with less than the maximum axle load (see Figure 3). The horizontal position for caravans and trailers is the position at which the floor or the loading bed is horizontal. For trailers without a reference plane of this nature (for example boat trailers and the like), the manufacturer must specify a suitable reference line for defining the horizontal position. The required height only applies to trailers to be coupled to the cars listed in 2.1.1.

2.2.2

It must be possible to operate coupling heads safely within the clearance of the coupling ball as shown in figures **1** and **2**.

13. Statutory regulations under ECE Directive R55

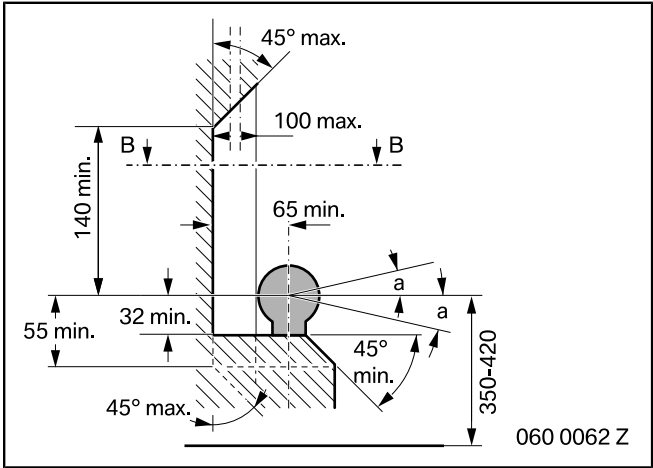


Figure 1
Space for coupling ball, side view.

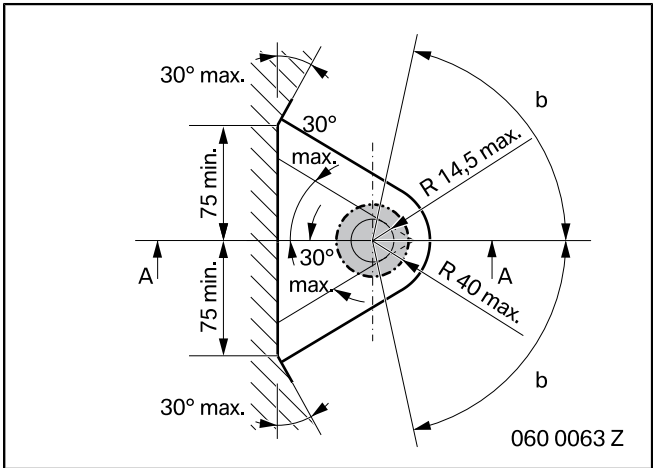


Figure 2
Space for coupling ball, plan view.

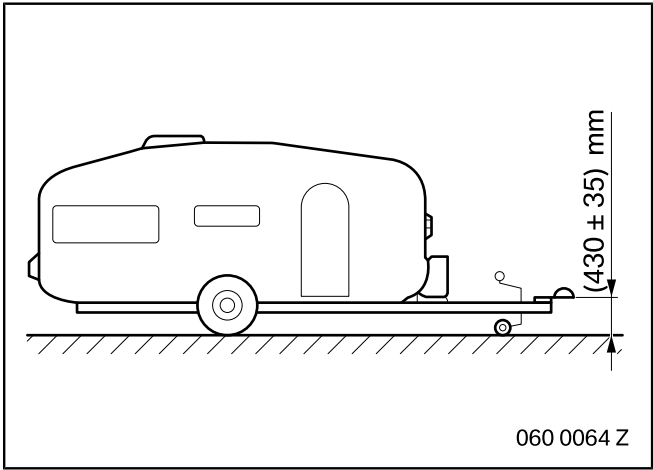


Figure 3
Installation height for the towing ball coupling.



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽¹⁾/~~APPROVAL EXTENDED ⁽⁴⁾~~
~~APPROVAL REFUSED ⁽⁴⁾~~/~~APPROVAL WITHDRAWN ⁽⁴⁾~~/~~PRODUCTION DEFINITELY~~
~~DISCONTINUED ⁽⁴⁾~~ OF A TYPE OF MECHANICAL COUPLING DEVICE OR COMPONENT,
PURSUANT TO REGULATION NO 55.01



Approval No: E11*55R01/08*11814*00

1. Trade name or mark of the device or component: BRINK
2. Type of device or component: 6142L
3. Manufacturer's name and address:

Brink Towing Systems B.V.
Industrieweg 5
NL - 7951 CX Staphorst
The Netherlands
4. If applicable, name and address of the manufacturer's representative: Not applicable
5. Alternative supplier's names or trademarks applied to the device or component:
Not applicable
6. Name and address of company or body taking responsibility for the conformity of production:
See item 3
7. Submitted for approval on: 30 November 2020
8. Technical service responsible for conducting approval tests: TÜV SÜD Auto Service GmbH

9. Brief description: Non-standard coupling ball 50

9.1. Type and class of device or component: 6142L; A50-X

9.2. Characteristic values:

9.2.1. Primary values:

D: 5.47 kN D_c: - kN S: 75 kg

U: - tonnes V: - kN

Alternative values: Not applicable

D..... kN D_c..... kN S..... kg

U.....tonnes V..... kN

9.3. For Class A mechanical coupling devices or components, including towing brackets:

Vehicle manufacturer's maximum permissible vehicle mass: 2180 kg

Distribution of maximum permissible vehicle mass between the axles: Front: 1115 kg
Rear: 1140 kg

Vehicle manufacturer's maximum permissible towable trailer mass: 750 kg

Vehicle manufacturer's maximum permissible static mass on coupling ball: 75 kg

Maximum mass of the vehicle, with bodywork, in running order, including coolant, oils, fuel, tools and spare wheel (if supplied) but not including driver: 1690 kg

Loading condition under which the tow ball height of a mechanical coupling device fitted to category M₁⁽²⁾ vehicles is to be measured -see paragraph 2 of Annex 7, Appendix 1:
As declared by the vehicle manufacturer


9.4. For class B coupling heads, is the coupling head intended to be fitted to an unbraked O₁ trailer:
YES/NO⁽¹⁾ Not applicable

10. Instructions for the attachment of the coupling device or component type to the vehicle and photographs or drawings of the mounting points (see Annex 2, Appendix 1) given by the vehicle manufacturer: See manufacturer's documentation

11. Information on the fitting of any special reinforcing brackets or plates or spacing components necessary for the attachment of the coupling device or component (see Annex 2, Appendix 1):
Not applicable

12. Additional information where the use of the coupling device or component is restricted to special types of vehicles - see Annex 5, paragraph 3.4.: Not applicable

13. For Class K hook type couplings, details of the drawbar eyes suitable for use with the particular hook type: Not applicable

14. Date of test report: 14 December 2020
15. Number of test report: 20-00398-CX-GBM-00
16. Approval mark position: Type plate on crossbeam
17. Reason(s) for extension of approval: Not applicable
18. Approval ~~GRANTED/EXTENDED/REFUSED~~WITHDRAWN⁽¹⁾
19. Place: BRISTOL
20. Date: 21 JANUARY 2021
21. Signature:  D LAWLOR
Chief Technical and Statutory Operations Officer
22. The list of documents deposited with the Type Approval Authority which has granted approval is annexed to this communication and may be obtained on request.

Any remarks: None

- (1) Strike out what does not apply.
- (2) As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78/Rev.3, para. 2
- www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html.