

Original BMW Accessories.

Installation Instructions.



Rear view camera retrofit

BMW 6 Series Gran Coupe (F06)

BMW 6 Series Convertible (F12)

BMW 6 Series Coupé (F13)

On F13 cars without SA 415, the electronics junction box must also be replaced. These instructions only apply to cars with CIC and SA 7SP (BMW Professional navigation system with integrated Bluetooth mobile phone preparation) or with SA 609 (BMW Professional navigation system).

Retrofit kit number

66 21 2 221 267	Rear view camera retrofit kit
66 21 2 410 689	Rear view camera retrofit kit
65 12 2 182 508	Video switch retrofit kit

Installation time

The installation time is **5.0 hours**. If the video switch retrofit kit needs to be installed, the installation time will increase by **1.5 hours**. This may vary depending on the condition of the car and the equipment in it.

The installation time shown does not include any time spent on programming/coding and calibration. The calculation of the total costs for the programming time must be factored into the calculation of retrofitting costs (no charges may be made through the warranty).

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, wiring diagrams, servicing manuals and work instructions, in a rational order, using the prescribed tools (special tools) and observing current health and safety regulations.

If you experience installation or function 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:

- Vehicle identification number,
- 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 provided via 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 other text.

Installation information

When routing fibre optic cables, make sure the bending radius is no less than 25 mm.

Refer to the instructions for handling fibre optic cables acc. to ISTA No. 61 00

Ensure that the cables and/or lines are not kinked or damaged as you install them in the car. Costs arising from 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.

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

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

The video switch retrofit kit must only be installed if input 3 on the radio receiver is occupied or in cars with RSE (for the assignment of inputs on the radio receiver, see the section entitled "Information on pin assignment on the radio receiver" at the end of these installation instructions). Special tools required

Ordering instructions

Control unit **E** is not included in the retrofit kit and must be ordered separately (see EPC for part number and further details).

If the video switch retrofit kit is installed, the video switch **AA** must be ordered separately (for the part number and instructions, see the EPC).

List of special equipment

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

- SA 3AG** Rear view camera
- SA 6UK** Night vision with person recognition
- SA 5DL** Surround view
- SA 601** TV function
- SA 609** Professional navigation system
- SA 7SP** Professional navigation system with integrated Bluetooth mobile phone preparation
- SA 6NS** Comfort telephony with extended smartphone connection

Special tools required

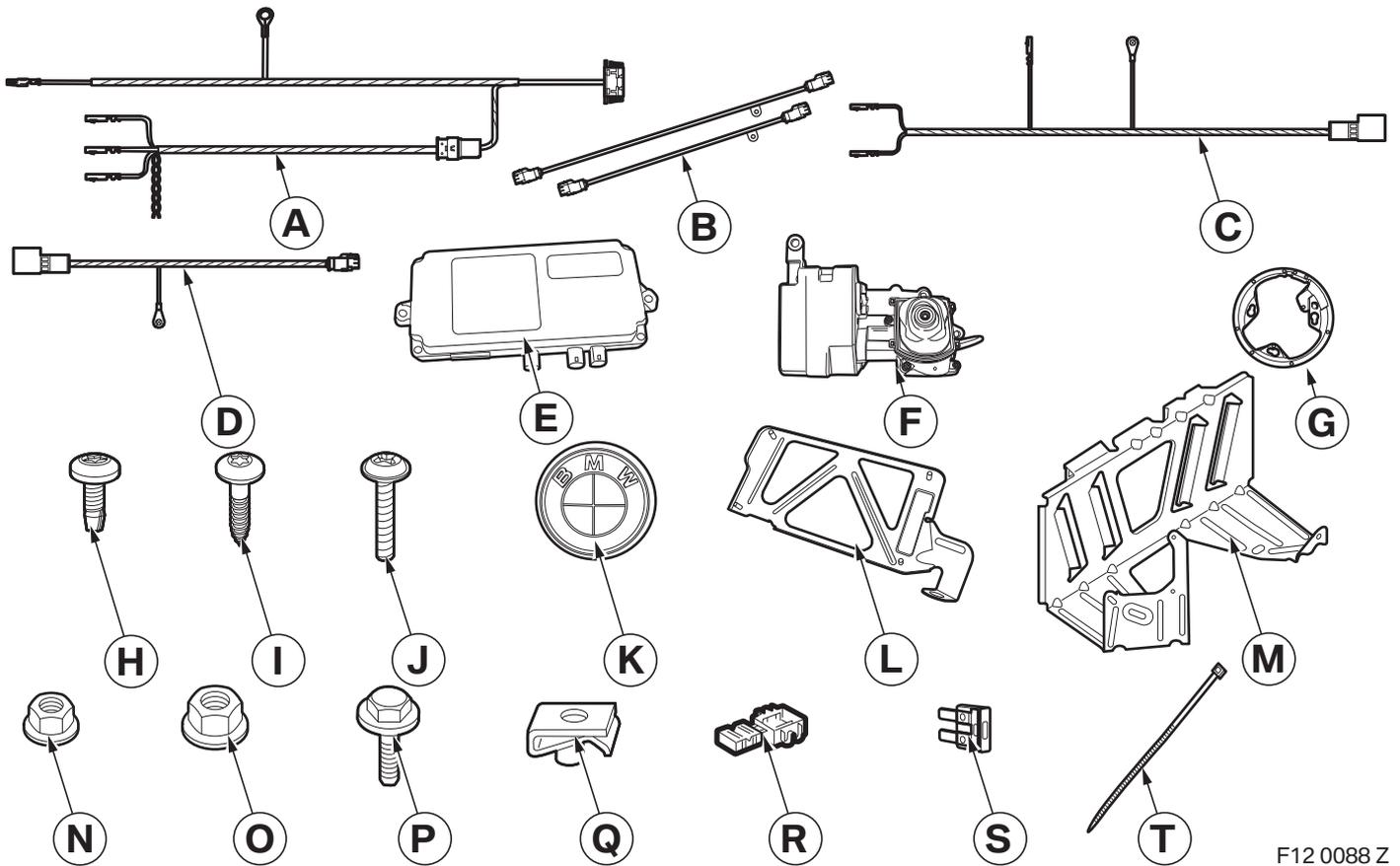
00 9 317, Installation wedge

54 3 120, Support (F12 cars only)

Table of contents

Section	Page
1 Rear view camera parts list.	4
2 Video switch parts list (cars with TV, camera and night vision only).	5
3 Preparatory work	6
4 Rear view camera connection diagram	7
5 Tailgate activation retrofit cable connection diagram	8
6 Tailgate activation retrofit cable connection diagram	9
7 Video switch parts list (cars with TV, camera and night vision only).	10
8 Adapter cable connection diagram (cars with TV function, rear view camera or surround view and night vision only).	11
9 Rear view camera installation and cabling diagram	12
10 Rear view camera with video switch installation and cabling diagram	13
11 Video switch installation and cabling diagram (cars with TV function, DVD changer or surround view and night vision only).	14
12 Installing and connecting the video switch (cars with TV function, rear view camera or surround view and night vision only).	15
13 Installing the rear view camera.	18
14 Concluding work and programming/coding	23
15 Rear view camera wiring diagram	24
16 Video switch wiring diagram (cars with TV, camera and night vision only).	26
17 DVD changer/TV/camera adapter cable wiring diagram (only when video switch is installed)	27
18 Information on pin assignment on the radio receiver	28

1. Rear view camera parts list

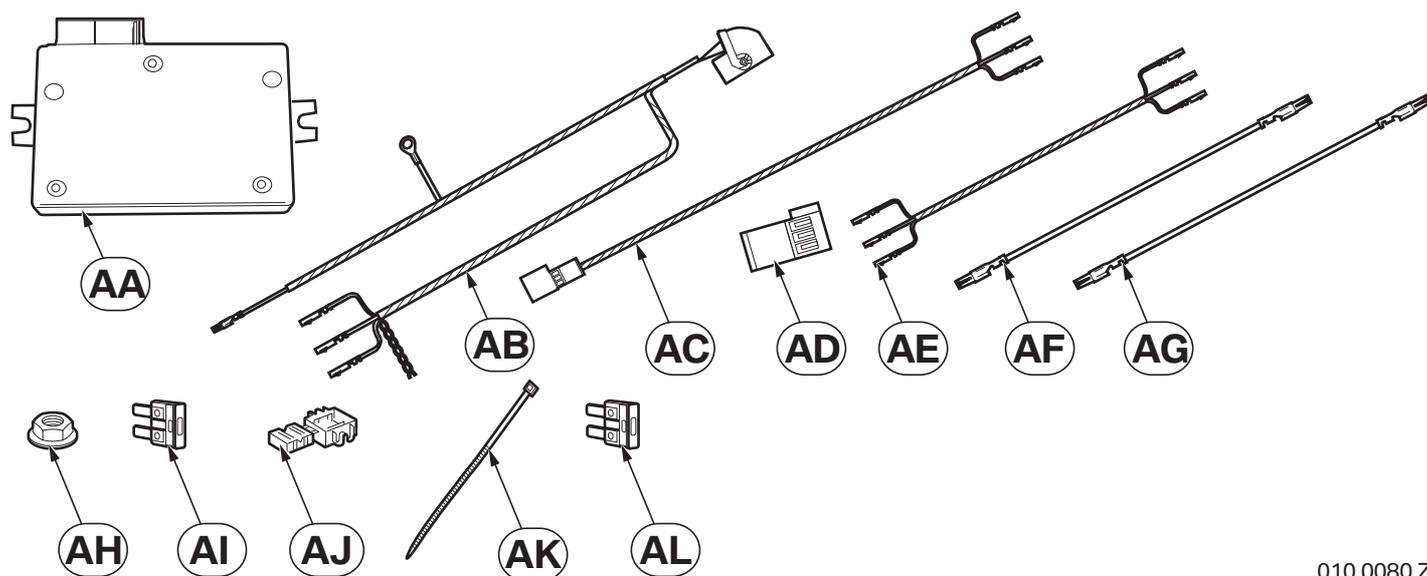


F12 0088 Z

Legend

- A** Rear view camera retrofit cable
- B** Camera cable
(2 x, short camera cable only for F12 cars, long camera cable only for F13/F06 cars)
- C** Tailgate activation retrofit cable (part 1)
- D** Tailgate activation retrofit cable (part 2)
- E** Control unit (not supplied in the retrofit kit)
- F** Rear view camera with tailgate activation
- G** Retaining ring
- H** Screw
- I** Screw M5 x 20
- J** Sheet metal screw M5 x 12
- K** Badge
- L** Control unit holder
- M** Amplifier mount
- N** Hexagon nut M5 (4 x)
- O** M6 hexagon nut (2 x)
- P** M6 hexagon screw (2 x)
- Q** Sheet metal nut M6 (2 x)
- R** Miniature connector (2 x)
- S** Fuse 5A (2 x)
- T** Cable tie (20 x)

2. Video switch parts list (cars with TV, camera and night vision only)



010 0080 Z

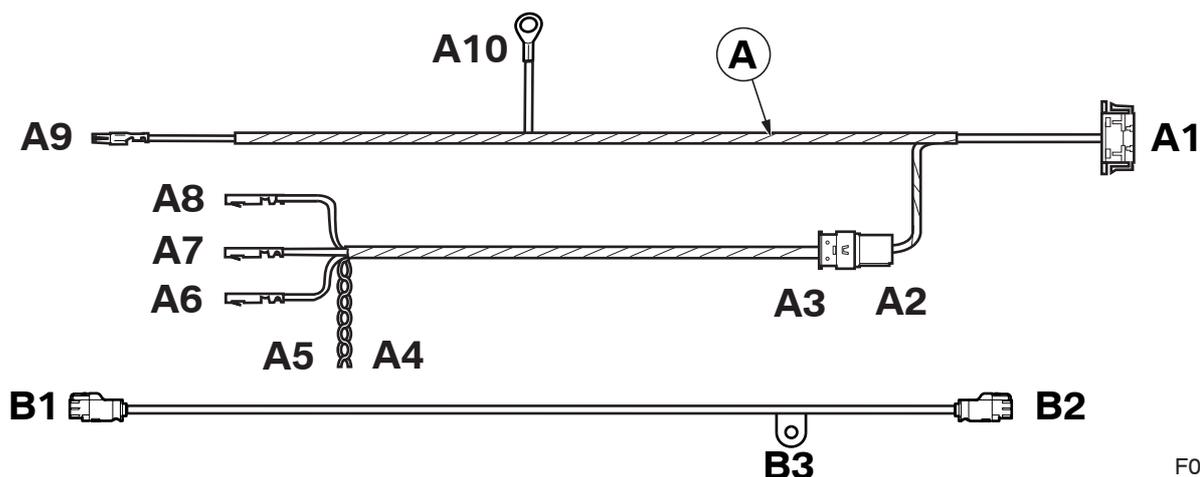
Legend

- AA** Video switch (not supplied with the retrofit kit)
- AB** Video switch retrofit cable
- AC** DVD changer adapter cable
- AD** SW 3-pin socket casing
- AE** TV adapter cable
- AF** RT/GE auxiliary cable (not required)
- AG** Video switch power supply RT/SW auxiliary cable (not required)
- AH** Hexagon nut M6
- AI** Fuse 5 A
- AJ** Miniature connector (2 x)
- AK** Cable tie (20 x)
- AL** Fuse 10 A (not required)

3. Preparatory work

	ISTA No.
Conduct a brief test	
Move the soft top compartment lid to the Service setting (F12 cars only)	51 00 ...
Disconnect the negative pole of the battery	61 20 900
The following components must be removed first of all	
Radio receiver	65 12 210
Glove box	51 16 366
Bottom right dashboard trim	51 45 184
Side footwell trim on right A pillar	51 43 075
Front right sill cover strip	51 47 000
Rear seat	52 24 005
Back rest for rear seat	52 24 010
Rear right side trim panel	51 43 002
Luggage compartment wheel arch trim, right	51 47 161
Luggage compartment wheel arch trim, left	51 47 151
Loosen the rear right power distribution box	61 13 042
Tailgate trim	
Pedal trim	51 45 184
Side footwell trim on the left A pillar	51 43 070
Front left door sill cover strip	51 47 000
Rear left side trim	51 43 002

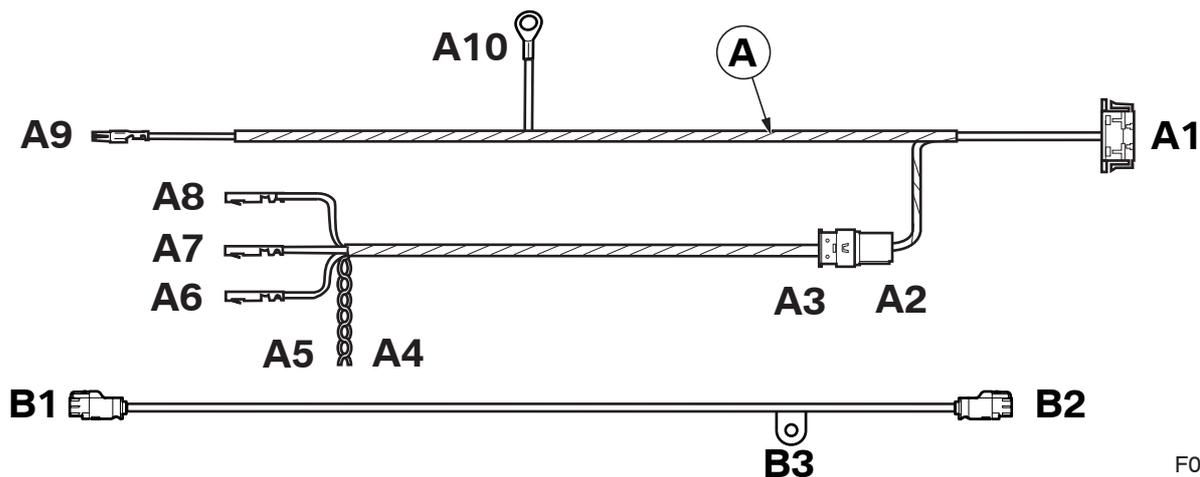
4. Rear view camera connection diagram



F01 0095 Z

Item	Designation	Signal	Cable colour/ cross-section	Connection location in the car	Abbreviation/slot
A	Retrofit cable	---	---	---	---
A1	SW 10-pin socket casing	---	---	To control unit E	A167*2B
A2	SW 6-pin socket casing	---	---	Cars with video switch only (original or retrofitted) To video switch AA (disconnect branch A3 and remove cable from branch A2) Cars without video switch only Leave branches A2 and A3 plugged in	A40*1B ---
A3	SW 6-pin plug casing	---	---	Cars with video switch only (original or retrofitted) Separate branches A2 and A3 (not required) Cars without video switch only Leave branches A2 and A3 plugged in	---
A4	Cable open	CAN_H	OR/GN 0.35 mm ²	Cars with video switch only (original or retrofitted) Not required Cars without video switch only To CIC with miniature connector R	A42*1B PIN 11
A5	Cable open	CAN_L	GN 0.35 mm ²	Cars with video switch only (original or retrofitted) Not required Cars without video switch only To CIC with miniature connector R	A42*1B PIN 9
A6	Socket contact	FBAS_+	RT 0.35 mm ²	Cars with video switch only (original or retrofitted) Not required Cars without video switch only To the CIC	A42*1B PIN 18
A7	Socket contact	FBAS-	WS 0.35 mm ²	Cars with video switch only (original or retrofitted) Not required Cars without video switch only To the CIC	A42*1B PIN 28

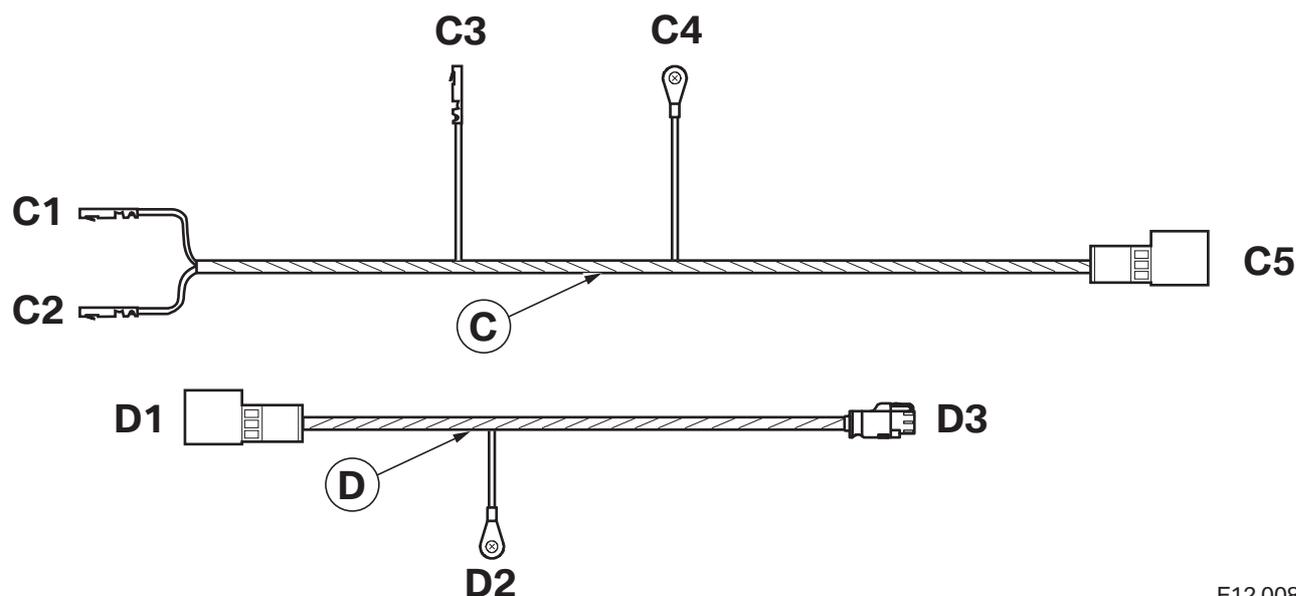
5. Tailgate activation retrofit cable connection diagram



F01 0095 Z

Item	Designation	Signal	Cable colour/ cross-section	Connection location in the car	Abbreviation/slot
A8	Socket contact	FBAS_ shield	Shield 0.26 mm ²	Cars with video switch only (original or retrofitted) Not required Cars without video switch only To the CIC	A42*1B PIN 27
A9	Socket contact	Terminal 15	GN/BL 0.50 mm ²	Connect to rear right power distribution box	Z2*10B PIN 2
A10	M6 ring eyelet	Terminal 31	BR 0.50 mm ²	To ground support point in the right luggage compartment	Z10*12B
---	---	---	---	---	---
B	Camera cable	---	---	---	---
B1	WS 4-pin socket casing	---	---	To rear view camera F	A24
B2	BL 4-pin socket casing	---	---	To control unit E	A167*7B
B3	Eyelet	---	---	To bodywork earth	---

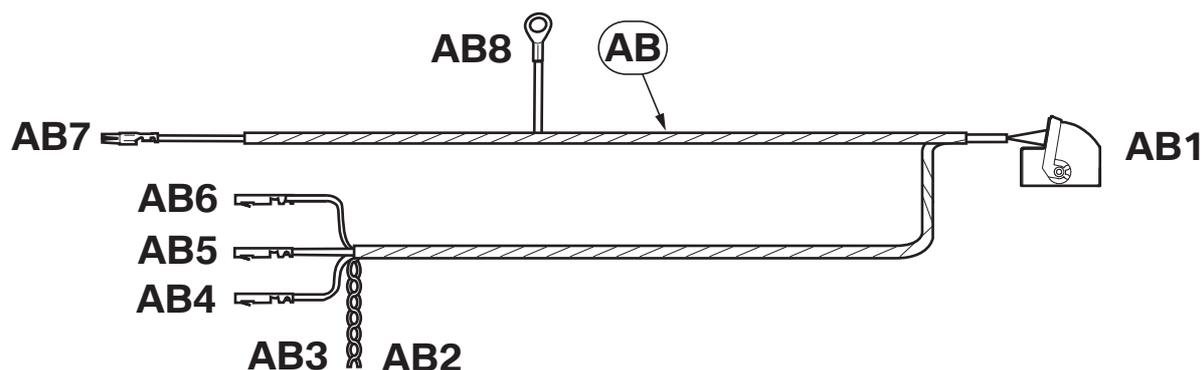
6. Tailgate activation retrofit cable connection diagram



F12 0087 Z

Item	Designation	Signal	Cable colour/ cross-section	Connection location in the car	Abbreviation/slot
C	Tailgate activation retrofit cable	---	---	---	---
C1	Socket contact	K_LIN_7	BL/WS 0.35 mm ²	To junction box A4010	A34*1B PIN 10
C2	Socket contact	T_HKL_S	GR/GE 0.35 mm ²	To junction box A4010	A34*2B PIN 44
C3	Socket contact	Terminal 30	RT/WS 0.35 mm ²	To rear right fuse box	Z2*6B PIN 6
C4	M6 ring eyelet	Terminal 31	BR 0.35 mm ²	To ground support point in the right luggage compartment	Z10*1B
C5	SW 4-pin socket casing	---	---	To branch D1	X132*1S
		---	---	---	---
D	Tailgate activation retrofit cable	---	---	---	---
D1	SW 4-pin plug casing	---	---	To branch C5	X132*1B
D2	M6 ring eyelet	Terminal 31	BR 0.35 mm ²	To ground support point in the right luggage compartment	Z10*1B
D3	WA/BL 4-pin socket casing	---	---	To rear view camera F	A244

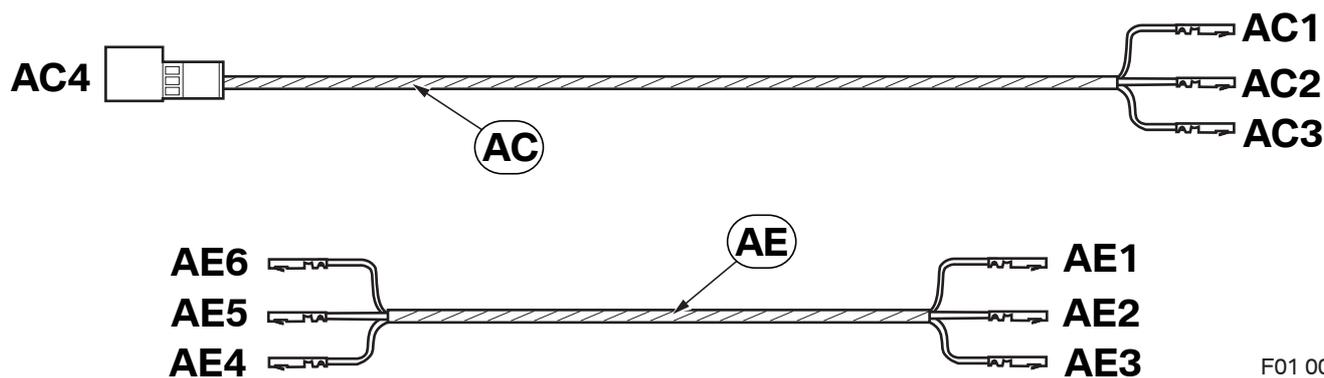
7. Video switch connection diagram (cars with TV, camera and night vision only)



F12 0018 Z

Item	Designation	Signal	Cable colour/ cross-section	Connection location in the car	Abbreviation/slot
AB	Video switch retrofit cable	---	---	---	---
AB1	SW 54-pin socket casing			To video switch AA	A40*1B
AB2	Cable open	CAN_H	OR/GN 0.35 mm ²	To the same colour on the radio plug using miniature connector AJ	A42*1B
AB3	Cable open	CAN_L	GN 0.35 mm ²	To the same colour on the radio plug using miniature connector AJ	A42*1B
AB4	Socket contact	FBAS_+	BL 0.35 mm ²	On radio receiver	A42*1B PIN 18
AB5	Socket contact	FBAS_-	WS 0.35 mm ²	On radio receiver	A42*1B PIN 28
AB6	Socket contact	FBAS_ shield	Shield 0.26 mm ²	On radio receiver	A42*1B PIN 27
AB7	Socket contact	Terminal 30B	RT/SW 0.50 mm ²	To rear right fuse box	Z2*10B PIN 10
AB8	M6 ring eyelet	Terminal 31	BR 0.50 mm ²	To ground support point in left luggage compartment	Z10*12B ---

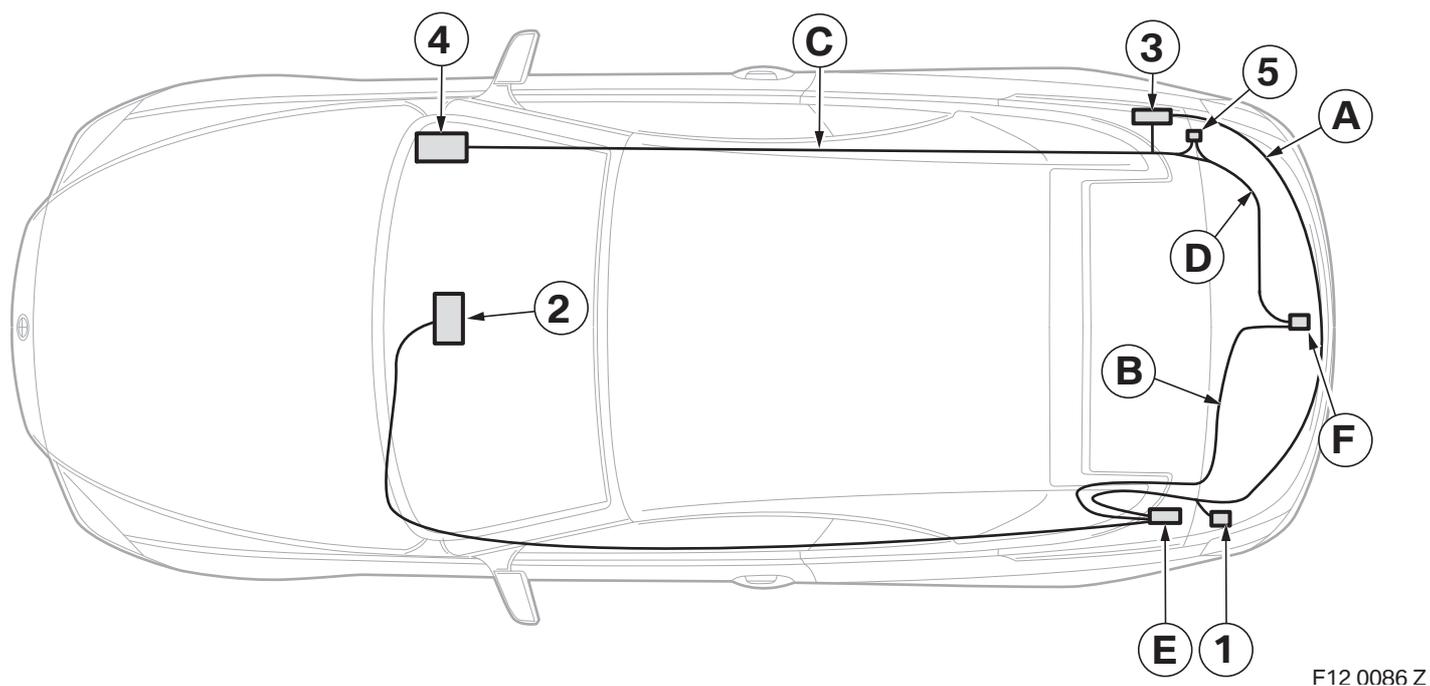
8. Adapter cable connection diagram (cars with TV function, rear view camera or surround view and night vision only)



F01 0097 Z

Item	Designation	Signal	Cable colour/ cross-section	Connection location in the car	Abbreviation/slot
AC	DVD changer adapter cable	---	---	---	---
AC1	Socket contact	FBAS_+	BL 0.35 mm ²	With branch AB1 at video switch AA	A40*1B PIN 3
AC2	Socket contact	FBAS_-	WS 0.35 mm ²	With branch AB1 at video switch AA	A40*1B PIN 21
AC3	Socket contact	FBAS_ shield	Shield 0.26 mm ²	With branch AB1 at video switch AA	A40*1B PIN 39
AC4	SW 3-pin plug casing	---	---	To socket casing AD	---
	---	---	---	---	---
AE	TV adapter cable	---	---	Cars with TV only	---
AE1	Socket contact	FBAS_+	RT 0.35 mm ²	With branch AB1 at video switch AA	A40*1B PIN 4
AE2	Socket contact	FBAS_-	WS 0.35 mm ²	With branch AB1 at video switch AA	A40*1B PIN 22
AE3	Socket contact	FBAS_ shield	Shield 0.26 mm ²	With branch AB1 at video switch AA	A40*1B PIN 40
AE4	Socket contact	FBAS_+	RT 0.35 mm ²	To TV module	A25*1B PIN 2
AE5	Socket contact	FBAS_-	WS 0.35 mm ²	To TV module	A25*1B PIN 8
AE6	Socket contact	FBAS_ shield	Shield 0.26 mm ²	To TV module	A25*1B PIN 7

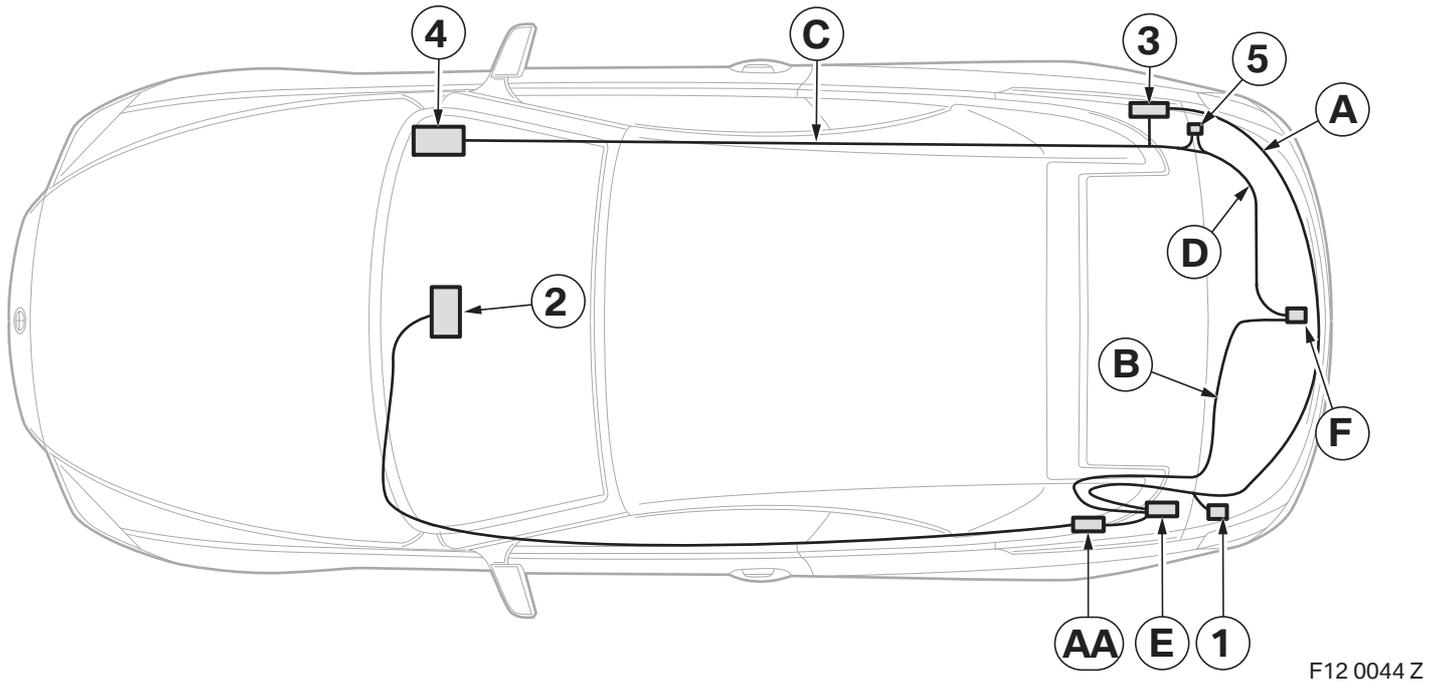
9. Rear view camera installation and cabling diagram



F12 0086 Z

- A** Rear view camera retrofit cable
 - B** Camera cable
 - C** Tailgate activation retrofit cable (part 1)
 - D** Tailgate activation retrofit cable (part 2)
 - E** Control unit
 - F** Rear view camera with tailgate activation
-
- 1** Ground support point **Z10*12B**
 - 2** Radio receiver, plug **A42*1B, A42*2B**
 - 3** Rear right power distribution box, plugs **Z2*6B, Z2*10B**
 - 4** Passenger footwell junction box **A4010**
 - 5** Ground support point **Z10*1B**

10. Rear view camera with video switch installation and cabling diagram



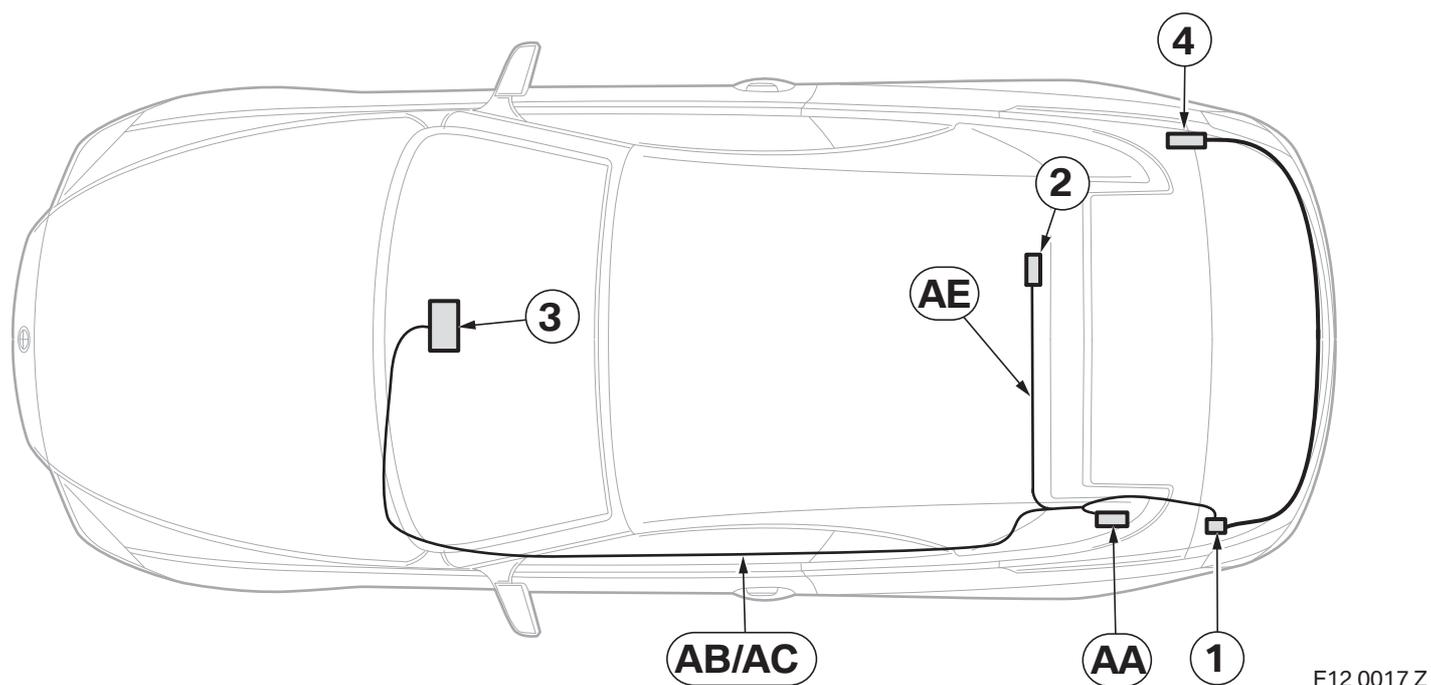
F12 0044 Z

- A** Rear view camera retrofit cable
- B** Camera cable
- C** Tailgate activation retrofit cable
- D** Tailgate activation retrofit cable
- E** Control unit
- F** Rear view camera with tailgate activation

AA Video switch

- 1** Ground support point **Z10*12B**
- 2** Radio receiver, plug **A42*1B, A42*2B**
- 3** Rear right power distribution box, plugs **Z2*6B, Z2*10B**
- 4** Passenger footwell junction box **A4010**
- 5** Ground support point **Z10*1B**

11. Video switch installation and cabling diagram (cars with TV function, DVD changer or surround view and night vision only)



AA Video switch

AB Video switch retrofit cable

AC DVD changer adapter cable

AE TV adapter cable

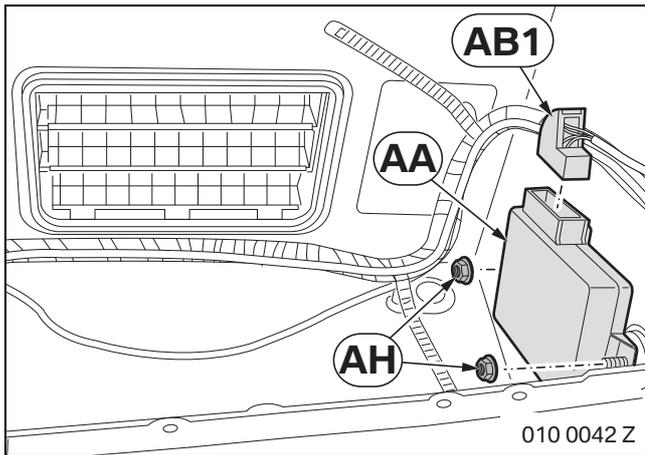
1 Ground connection **Z10*12B**

2 TV module, plug **A25*1B**

3 Radio receiver, plug **A42*1B**

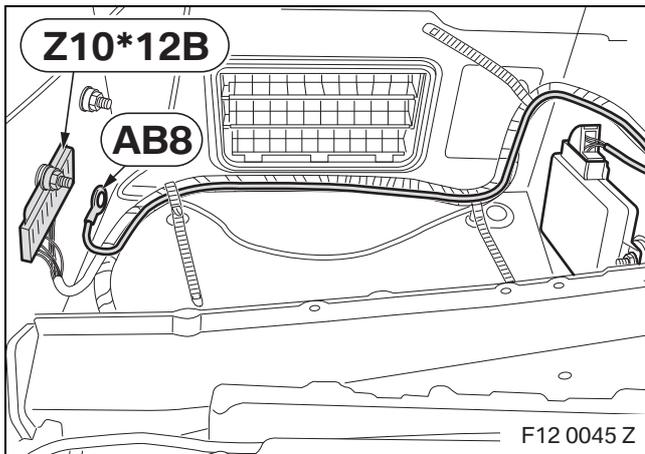
4 Rear right power distribution box, plug **Z2*10B**

12. Installing and connecting the video switch (cars with TV function, rear view camera or surround view and night vision only)

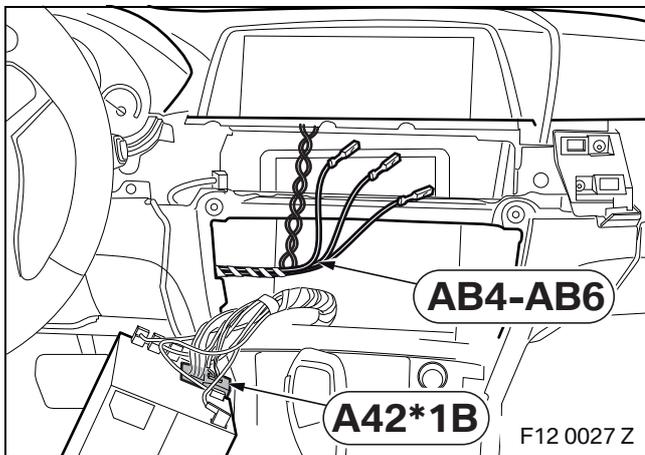


Screw-connect video switch **AA** using hexagon screws **AH**.

Connect socket casing **AB1** to video switch **AA**.

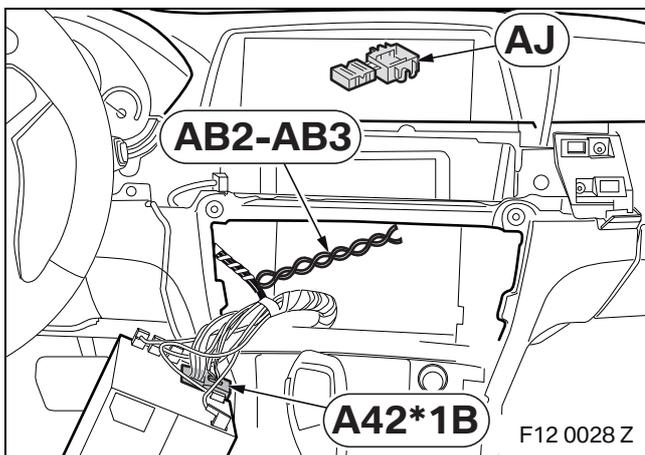


Screw branch **AB8** (6 mm diameter ring eyelet) to ground support point **Z10*12B**.



☐ If PINs 18/27/28 are already occupied, disconnect the existing cables, insulate them and tie them back. ◀

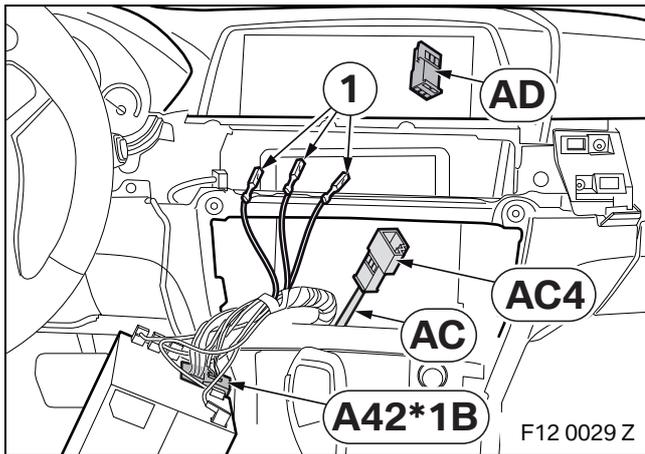
Route branches **AB2-AB6** to the radio receiver, plug **A42*1B**.



Connect branches **AB2-AB3** as follows using miniature connector **AJ** to the cable of plug **A42*1B**, SW 40-pin socket casing:

- Branch **AB2**, OR/GN cable, to the same colour on radio plug **A42*1B** using miniature connector **AJ**
- Branch **AB3**, GN cable, to the same colour on radio plug **A42*1B** using miniature connector **AJ**

12. Installing and connecting the video switch (cars with TV function, rear view camera or surround view and night vision only)



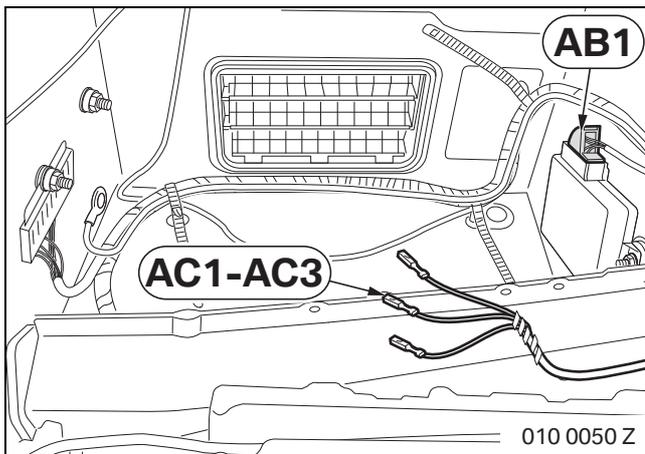
Cars with DVD changer only

Disconnect the following cables (1) from plug **A42*1B** and connect them to socket casing **AD**:

- BL cable from PIN 21 to PIN 1
- WS cable from PIN 24 to PIN 2
- Shield from PIN 23 to PIN 3

Connect branch **AC4** to socket casing **AD**.

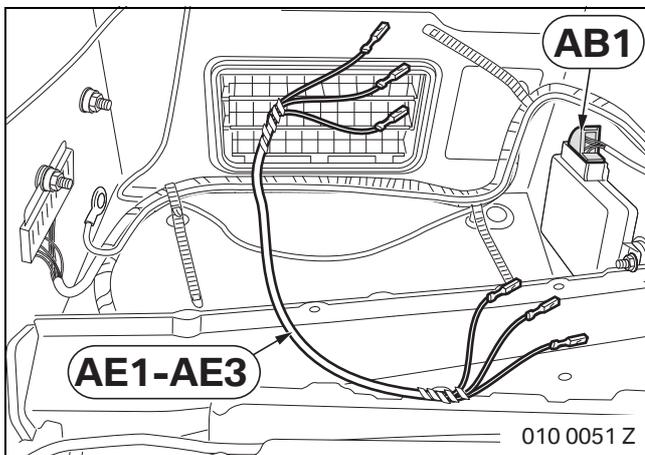
Route DVD changer adapter cable **AC** to the video switch.



Connect branches **AC1-AC3** as follows to branch **AB1**:

- Branch **AC1**, BL cable, to PIN 3
- Branch **AC2**, WS cable, to PIN 21
- Branch **AC3**, shield, to PIN 39

Connect branch **AB1** to the video switch.



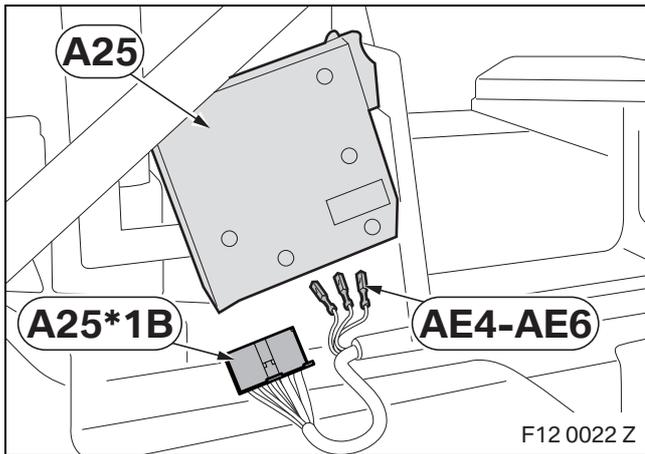
Cars with TV module only

Connect branches **AE1-AE3** as follows to plug **AB1**:

- Branch **AE1**, RT cable, to PIN 4
- Branch **AE2**, WS cable, to PIN 22
- Branch **AE3**, shield, to PIN 40

Connect branch **AB1** to the video switch.

12. Installing and connecting the video switch (cars with TV function, rear view camera or surround view and night vision only)



Disconnect, insulate and tie back the following cables from plug **A25*1B**, SW 12+2-pin socket casing:

- BL cable from PIN 2
- WS cable from PIN 8
- Shield from PIN 7

Connect branches **AE4–AE6** as follows to branch **A25*1B**:

Branch **AE4**, RT cable, to PIN 2

Branch **AE5**, WS cable, to PIN 8

Branch **AE6**, shield, to PIN 7

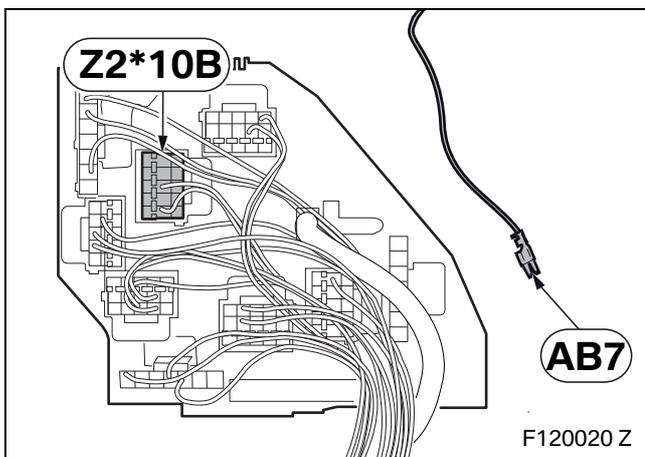
Connect plug **A25*1B** to TV module **A25**.

All cars

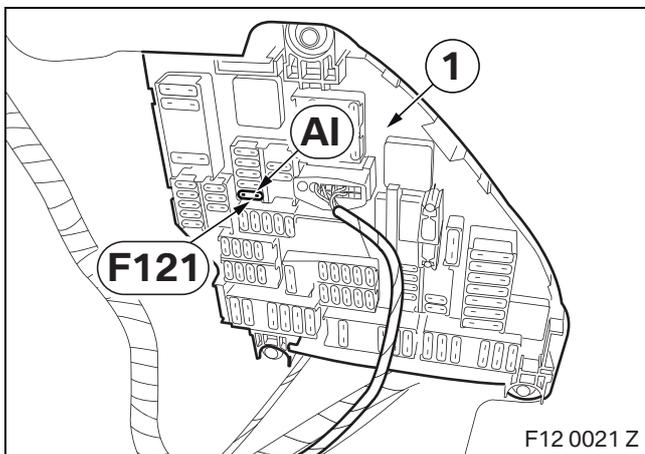
 Fuses can fall out when plugs are connected to the rear right power distribution box (1). Ensure that all the fuses are replaced in their correct position. ◀

Route branch **AB7** to the rear right power distribution box.

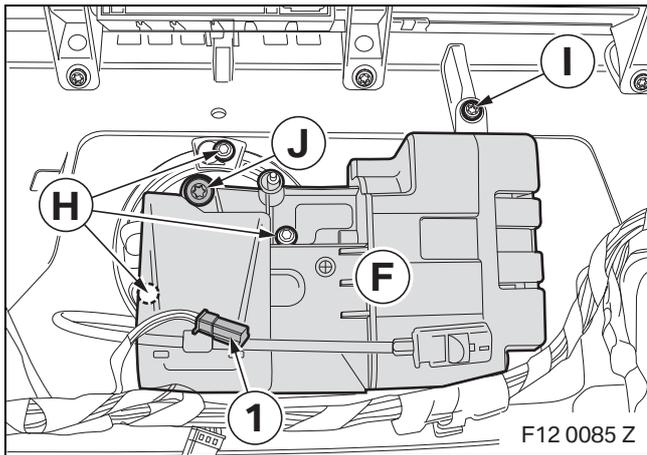
Connect branch **AB7** to PIN 10 of plug **Z2*10B**, SW 12-pin socket casing.



Place fuse **AI** into slot **F121** of the rear right fuse box (1).

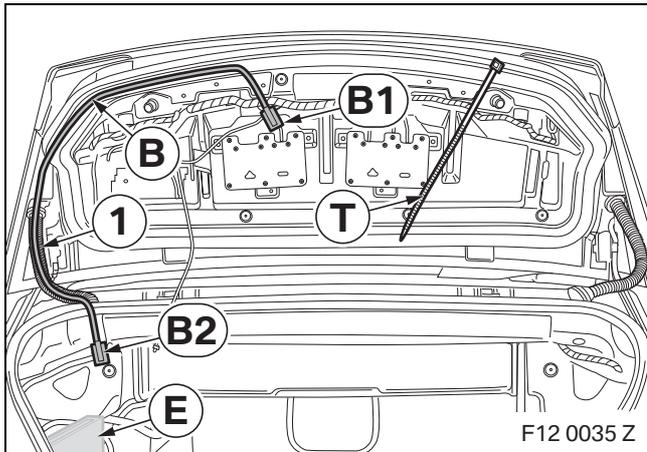


13. Installing the rear view camera



Install rear view camera with tailgate activation **F** using screws **H**, screw **I** and sheet metal screw **J** (see ISTA 66 53 020).

Isolate the car-side plugs (1) of the tailgate activation and tie them back.

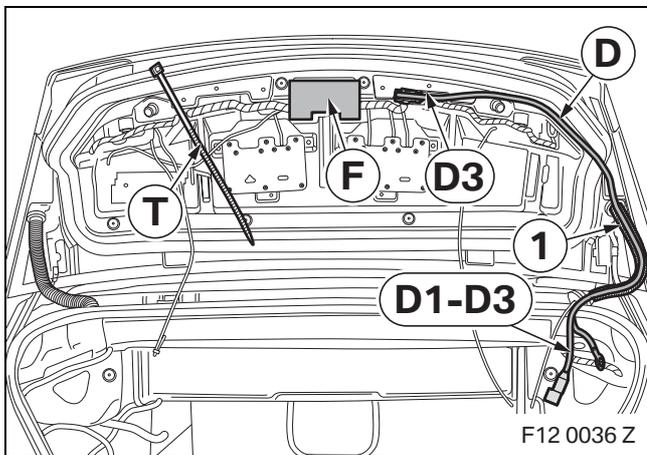


☐ In order to avoid rattling noises, ensure that camera cable **B** is routed carefully. ◀

Route branch **B1** of camera cable **B** through the left-hand grommet (1) using the pull-through tool to the installation point of the rear view camera.

Route branch **B2** of camera cable **B** to the installation point of control unit **E**.

Secure camera cable **B** to the standard car wiring harnesses with cable ties **T**.

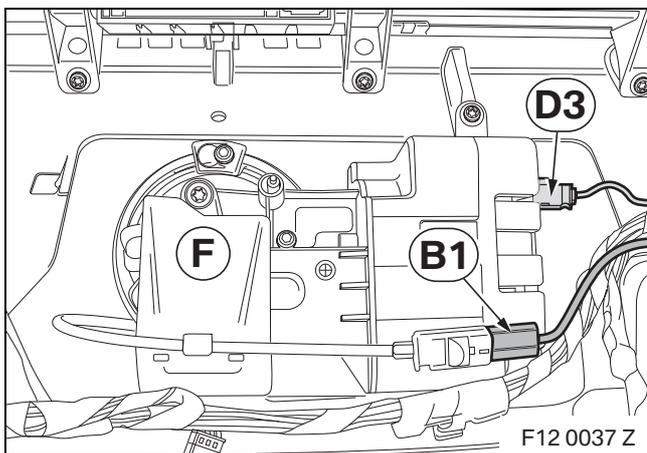


☐ In order to avoid rattling noises, ensure that tailgate activation retrofit cable **D** is routed carefully. ◀

Route branch **D3** of tailgate activation retrofit cable **D** through the right-hand grommet (1) to the installation point for the rear view camera with tailgate activation **F**.

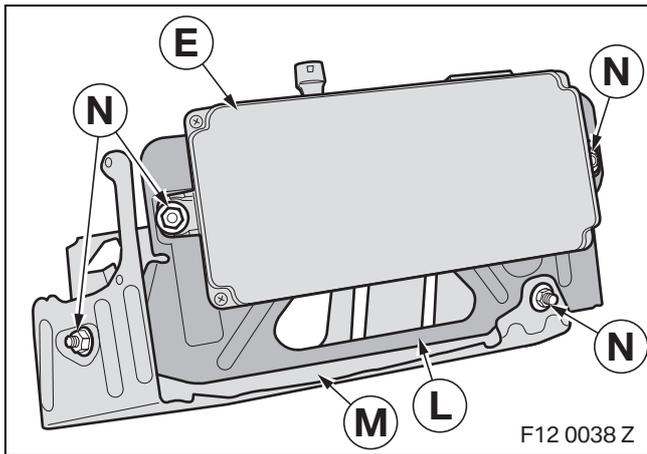
Secure tailgate activation retrofit cable **D** to the standard car wiring harnesses with cable ties **T**.

Route branches **D1-D2** to the installation point for the rear right fuse box.



Connect branch **B1**, SW 4-pin socket casing, and branch **D3**, WA/BL 4-pin socket casing, to rear view camera with tailgate activation **F**.

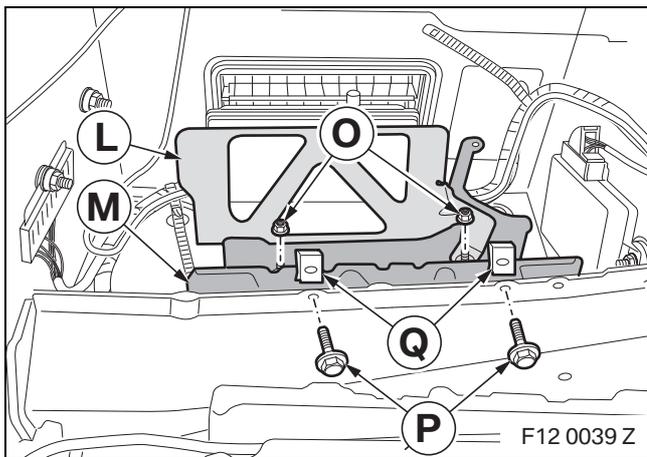
13. Installing the rear view camera



▶ If control unit mount **L** and amplifier mount **M** are already installed in the car, these are no longer required. ◀

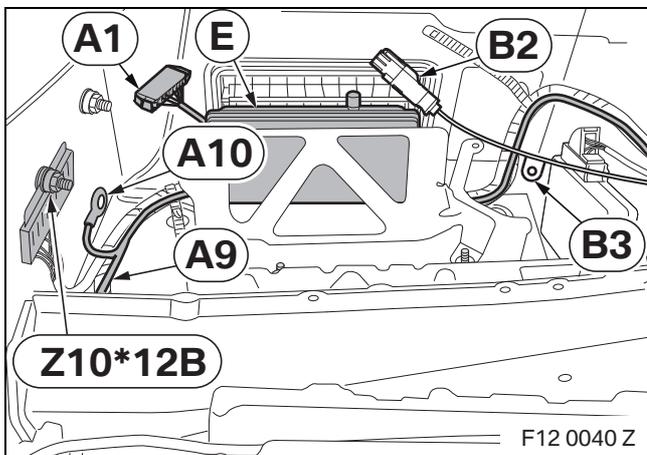
Place control unit **E** on control unit mount **L** and screw into place with hexagon nuts **N**.

Screw-connect control unit mount **L** to amplifier mount **M** using hexagon nuts **N**.



Push sheet metal nuts **Q** onto amplifier mount **M**.

Insert control unit mount **L** and amplifier mount **M** in the rear left of the car and screw into place in the car using hexagon nuts **O** and hexagon screws **P**.

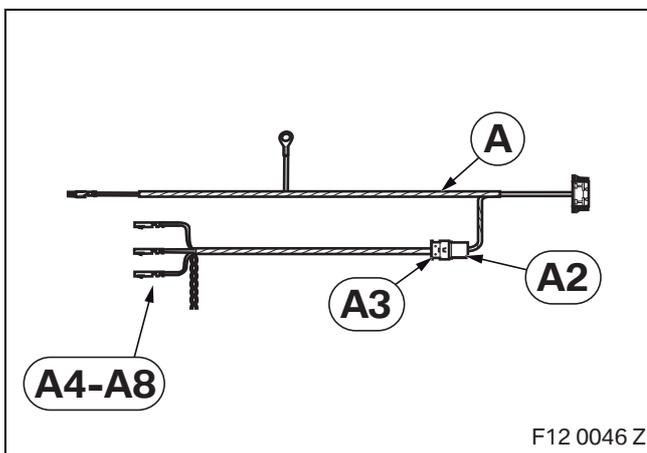


Connect branch **A1**, SW 10-pin socket casing and branch **B2**, BL 4-pin socket casing, to control unit **E**.

Screw branch **B3**, ring eyelet, onto the bodywork earth.

Screw branch **A10**, eyelet diameter 6 mm, to ground support point **Z10*12B**.

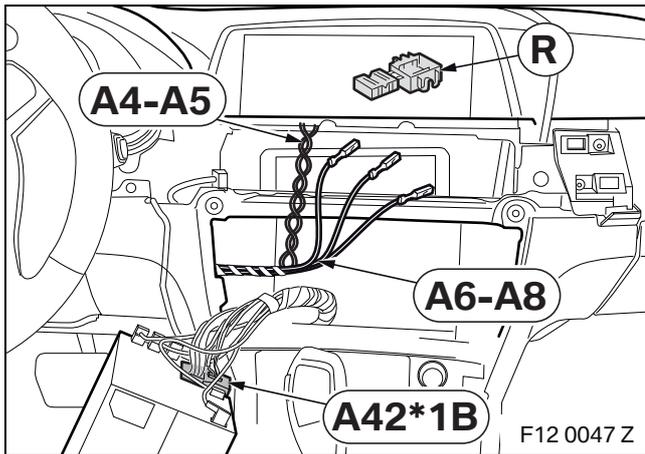
Route branch **A9** along the rear panel to the rear right power distribution box.



Cars without video switch only

Leave branches **A2** and **A3** of rear view camera retrofit cable **A** connected and route branches **A4-A8** along the left-hand side of the car to the installation point for the radio receiver.

13. Installing the rear view camera

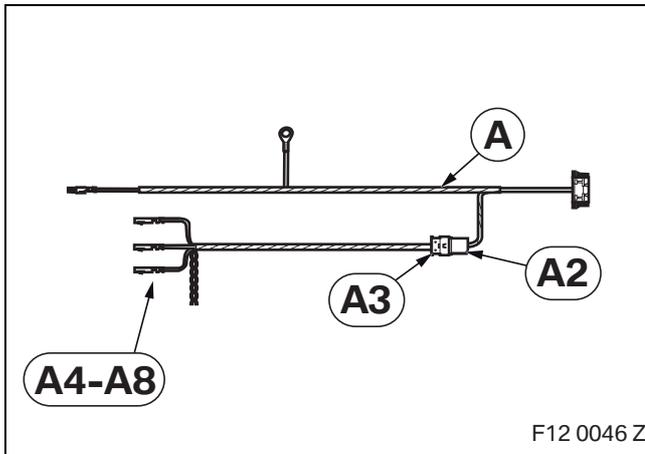


Connect branches **A4–A5** as follows using miniature connector **R** to the cable of plug **A42*1B**, SW 40-pin socket casing:

- Branch **A4**, OR/GN cable, to the same-coloured cable on PIN 11
- Branch **A5**, GN cable, to the same coloured cable on PIN 9

Connect branches **A6–A8** as follows to plug **A42*1B** SW 40-pin socket casing:

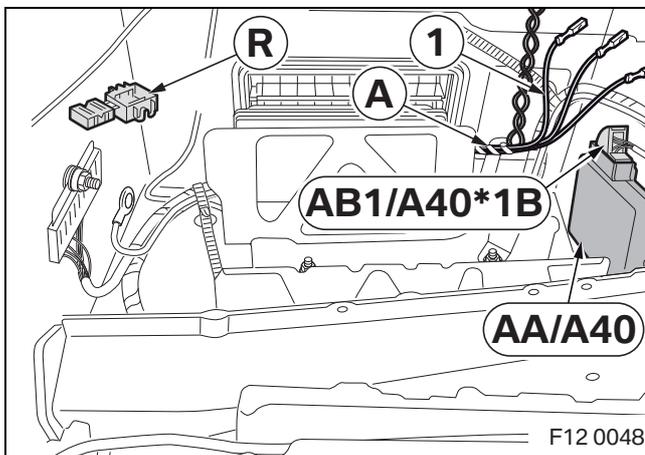
- Branch **A6**, RT cable, to PIN 18
- Branch **A7**, WS cable, to PIN 28
- Branch **A8**, shield, to PIN 27



Cars with video switch only

Disconnect branches **A2** and **A3** from rear view camera retrofit cable **A**, disconnect all cables from branch **A2** and route to the installation point for the video switch.

Branches **A3–A8** are no longer required.



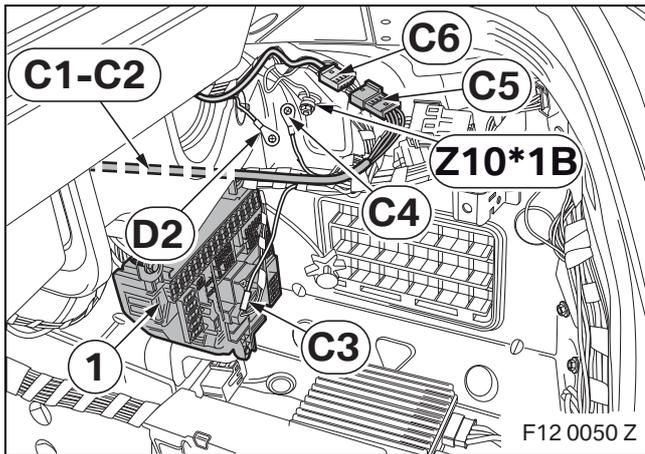
Connect the cables disconnected from branch **A2** as follows to branch **AB1**:

Connect cable (1) from rear view camera retrofit cable **A** as follows to plug **AB1/A40*1B**, SW 54-pin socket casing:

- RT cable to PIN 1
- WS cable to PIN 19
- Shield to PIN 37
- Orange/green cable with miniature connector **R** to the same colour on the cable from PIN 18
- Green cable with miniature connector **R** to the same colour on the cable from PIN 36

Connect branch **AB1/A40*1B** to video switch **AA/A40**.

13. Installing the rear view camera



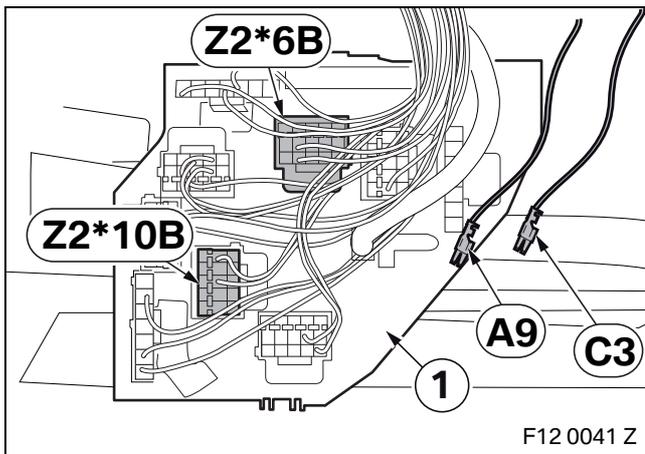
All cars

Screw branches **D2** and **C4** to ground support point **Z10*1B**.

Connect branches **C5** and **C6** together.

Route branch **C3** to the rear right fuse box (1).

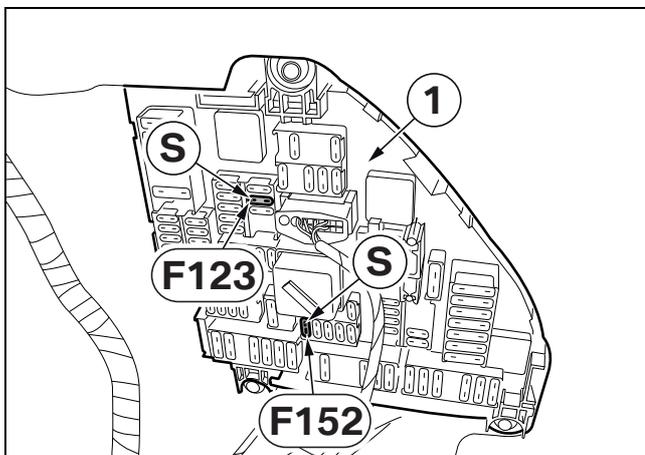
Route branches **C1-C2** to the installation point for the junction box.



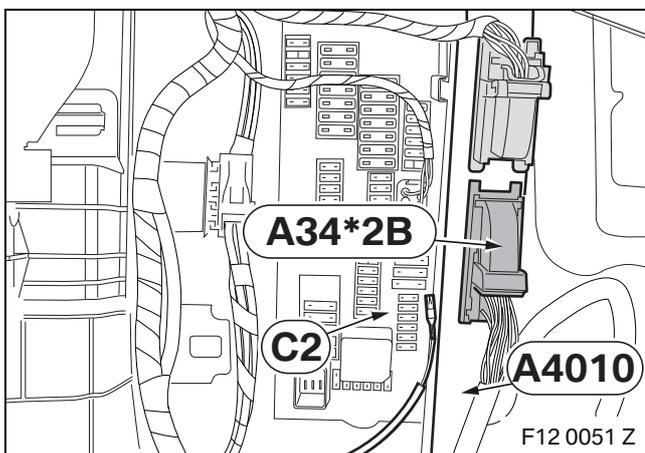
⚠ Fuses can fall out when plugs are connected to the rear right power distribution box (1). Ensure that all the fuses are replaced in their correct position. ◀

Connect branch **A9**, GN/BL cable, to PIN 2 of plug **Z2*10B** on the power distribution box (1).

Connect branch **C3**, RT/WS cable, to PIN 6 of plug **Z2*6B** of the power distribution box (1).



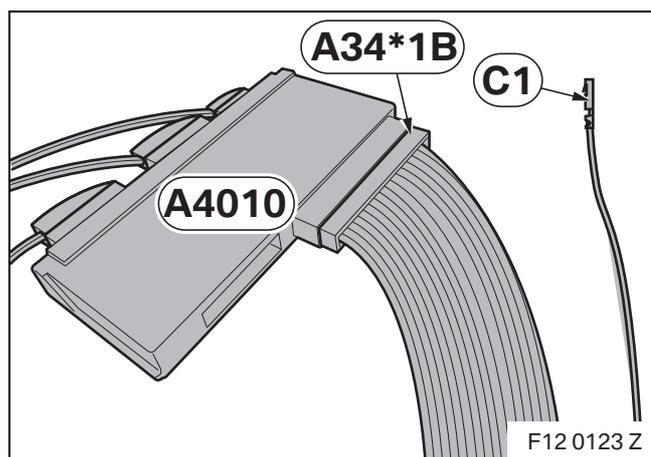
Insert fuses **S** into slots **F123** and **F152** of the power distribution box (1).



⚠ If PIN 44 of plug **A34*2B** is already occupied, disconnect the car's GR/GE cable, insulate it and tie it back. ◀

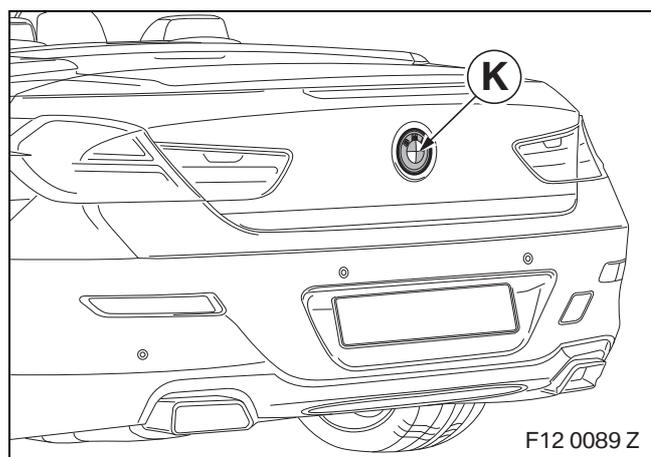
Connect branch **C2**, GR/GE cable, to PIN 44 of plug **A34*2B**.

13. Installing the rear view camera



Connect branch **C1** as follows to junction box **A4010**:

- Connect branch **C1**, BL/WS cable, to PIN 10 of plug **A34*1B**



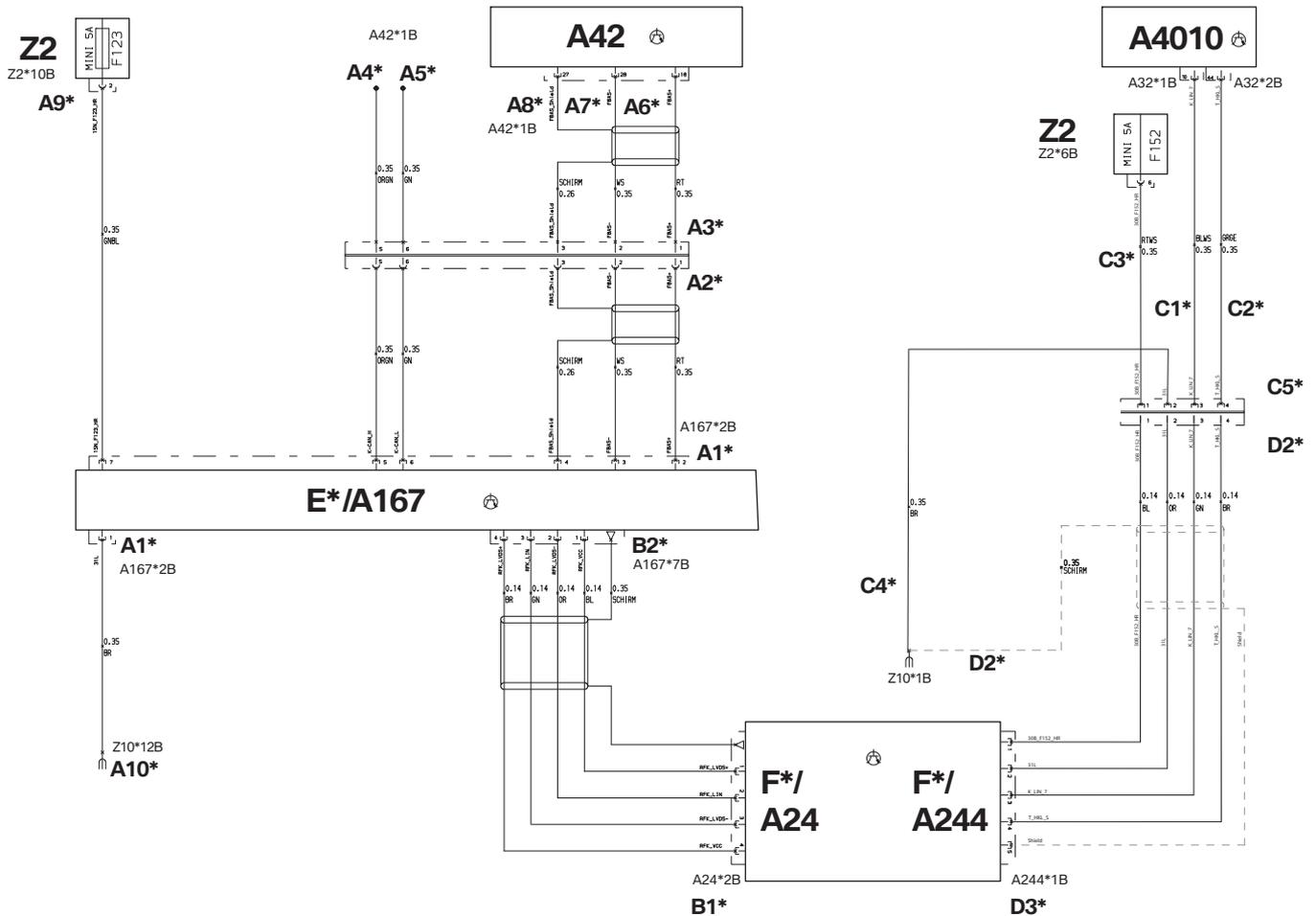
Attach plate **K**.

14. Concluding work and programming/coding

The retrofit system requires programming/coding.

- Connect the battery
- Carry out a vehicle test using the ISTA system and note or work through any entered error memory
- Change in the ISTA/P car programming
- Select the "Rear view camera" retrofit via the – **Conversion** – path and work through the created action plan
- If using ISTA/P, please note the instructions in the ISTA/P application documentation
- Carry out a functional check of the rear view camera
- Re-assemble the car
- Carry out the calibration of the rear view camera as per ISTA No. 66 53 010

15. Rear view camera wiring diagram



F12 0053 Z

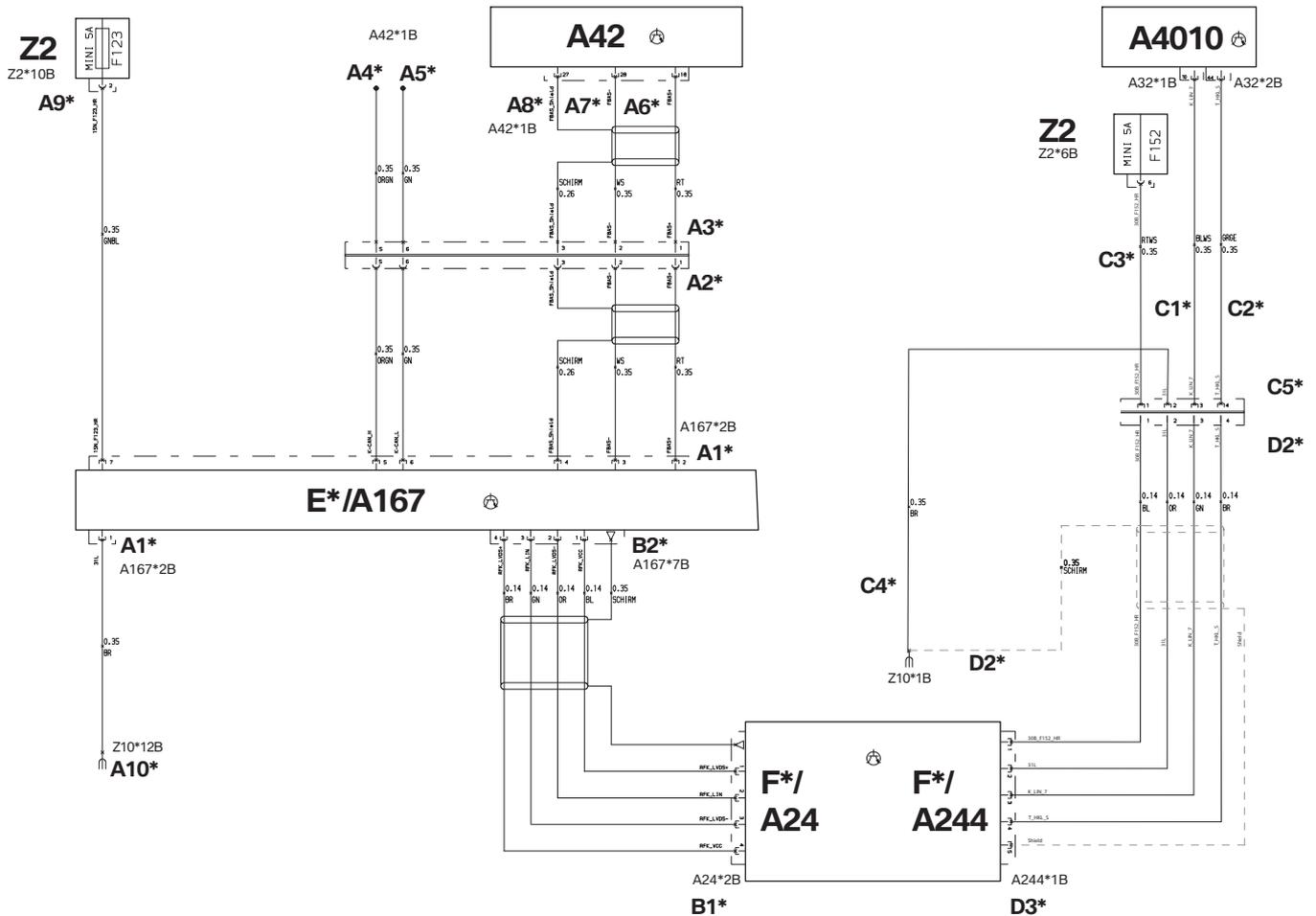
Legend

- A1*** SW 10-pin socket casing **A167*2B**, to control unit **E*/A167**
- A2*** SW 6-pin socket casing
- A3*** SW 6-pin plug casing
- A4*** Cable open, to CIC plug **A42*1B** with miniature connector **R**
- A5*** Cable open, to CIC plug **A42*1B** with miniature connector **R**
- A6*** Socket contact, to plug **A42*1B** on radio receiver **A42** (cars without video switch only)
- A7*** Socket contact, to plug **A42*1B** on radio receiver **A42** (cars without video switch only)
- A8*** Socket contact, to plug **A42*1B** on radio receiver **A42** (cars without video switch only)
- A9*** Socket contact, to plug **Z2*7B** of rear right power distribution box **Z2**
- A10*** Ring eyelet, to ground support point **Z10*12B**

- B1*** SW 4-pin socket casing **A24*2B**, to camera **F*/A24**
- B2*** BL 4-pin socket casing **A167*7B**, to control unit **E*/A167**

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

15. Rear view camera wiring diagram



F12 0053 Z

Legend

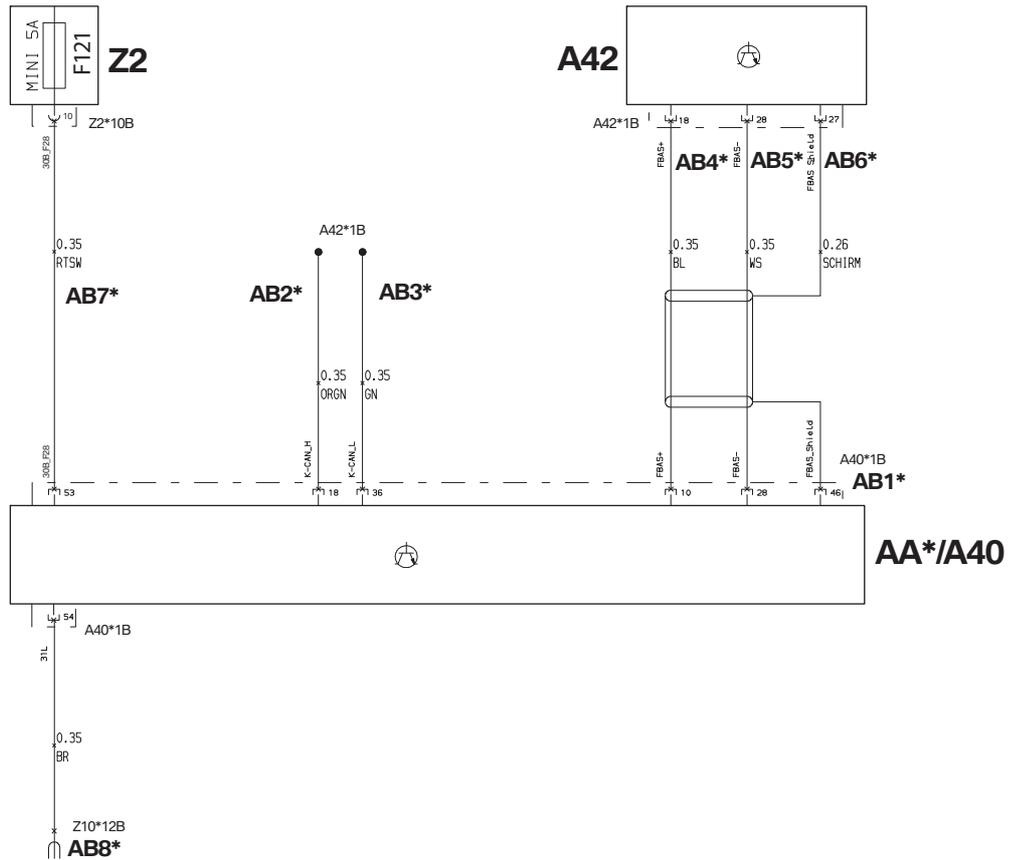
- C1*** Socket contact, to plug **A34*1B** junction box **A4010**
- C2*** Socket contact, to plug **A34*2B** junction box **A4010**
- C3*** Socket contact, to plug **Z2*6B** of rear right power distribution box **Z2**
- C4*** Ring eyelet, to ground support point **Z10*1B**
- C5*** SW 4-pin socket casing, to branch **D1***
- D1*** SW 4-pin pin housing, to branch **C5***
- D2*** Ring eyelet, to ground support point **Z10*1B**
- D3*** Socket casing, to rear view camera with tailgate activation **F*/A244**
- E*** Control unit **A167**
- F*** Rear view camera with tailgate activation **A24**

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

Cable colours

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

16. Video switch connection diagram (cars with TV, camera and night vision only)



F12 0026 Z

Legend

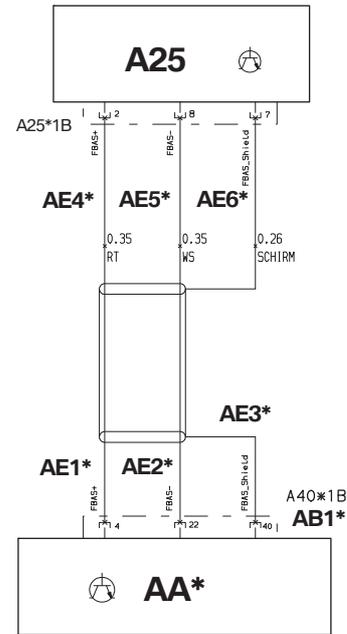
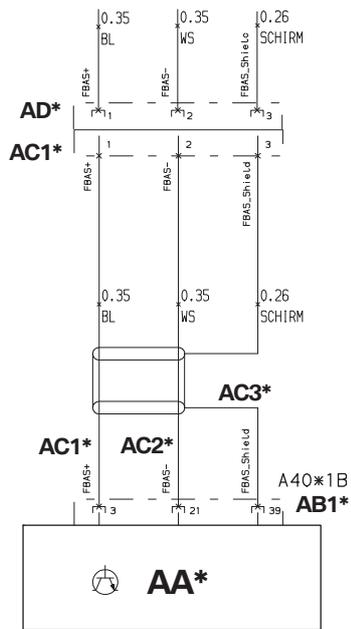
- AB1*** SW 54-pin socket casing **A40*1B**, on video switch **AA*/A40**
- AB2*** Cable open, on radio receiver plug **A42*1B** with miniature connector **AJ**
- AB3*** Cable open, on radio receiver plug **A42*1B** with miniature connector **AJ**
- AB4*** Socket contact, to plug **A42*1B** on radio receiver **A42**
- AB5*** Socket contact, to plug **A42*1B** on radio receiver **A42**
- AB6*** Socket contact, to plug **A42*1B** on radio receiver **A42**
- AB7*** Socket contact, to plug **Z2*7B** of rear right power distribution box **Z2**
- AB8*** 6 mm eyelet, to ground support point **Z10*12B**

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

Cable colours

BL	Blue	RT	Red
BR	Brown	SW	Black
GN	Green	WA/BL	Sea blue
OR	Orange	WS	White

17. DVD changer/TV/camera adapter cable wiring diagram (only when video switch is installed)



F01 0142 Z

Legend

- AC1*** Socket contact, to plug **AB1*/A40*1B** on video switch **AA***
- AC2*** Socket contact, to plug **AB1*/A40*1B** on video switch **AA***
- AC3*** Socket contact, to plug **AB1*/A40*1B** on video switch **AA***
- AC4*** SW 3-pin pin housing, with socket casing **AD*** to disconnected cables on radio receiver

- AE1*** Socket contact, to plug **AB1*/A40*1B** on video switch **AA***
- AE2*** Socket contact, to plug **AB1*/A40*1B** on video switch **AA***
- AE3*** Socket contact, to plug **AB1*/A40*1B** on video switch **AA***
- AE4*** Socket contact, to plug **A25*1B** on TV module **A25**
- AE5*** Socket contact, to plug **A25*1B** on TV module **A25**
- AE6*** Socket contact, to plug **A25*1B** on TV module **A25**

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

Cable colours

BL	Blue	RT	Red
BR	Brown	SW	Black
GN	Green	WA/BL	Sea blue
OR	Orange	WS	White

18. Information on pin assignment on the radio receiver

Possible input assignments on plug A42*1B

Input 1	TV module, camera control unit or video switch	PIN 18 FBAS_+ PIN 28 FBAS_- PIN 27 shield
Input 2	TV module or night vision camera	PIN 19 FBAS_+ PIN 26 FBAS_- PIN 25 shield
Input 3	TV module or DVD changer	PIN 21 FBAS_+ PIN 24 FBAS_- PIN 23 shield

The inputs for the control unit, video switch, night vision camera and DVD changer are fixed.

The input for the TV module varies according to which input is already assigned.

If a video switch is installed, the camera control unit, TV module and DVD changer are connected to the video switch. This applies likewise to a retrofitted video switch.

When retrofitting the video switch, the supplied adapter cables must be installed depending on the existing system.