

Original BMW Accessories. Installation Instructions.



BMW Station Retrofit

BMW 1 Series (E81, E82, E87, E88)

BMW X1 (E84)

BMW 3 Series (E90, E91, E92, E93)

BMW X3 (E83, F25) with SA 662 (Business CD radio)

BMW Z4 (E89)

Installation only suitable for cars without on-board monitor and without hands-free kit.

Retrofit kit number

84 21 2 219 217 BMW Station retrofit kit for the Apple iPhone 3G/3GS

84 21 2 219 219 BMW Station retrofit kit for the Apple iPhone 4

Installation time

The installation time is as follows for these models:

- E81/E82/E87/E88 without SA 493 (storage package) approx. **2 hours**
- E81/E82/E87/E88 with SA 493 (storage package) and E89 approx. **1.75 hours**
- E84/E90/E91/E92/E93/F25 approx. **1.5 hours**
- E83 approx. **1.25 hours**

On cars with SA 6FL, the installation time increases by approx. **0.25 hours**.

These times may vary depending on the condition of the car and the equipment in it.

The installation time specified does not include the time spent on programming/coding.

The calculation of the total costs for the programming time must be factored into the calculation of retrofitting costs (no invoicing via 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.

Restrict troubleshooting to around 0.5 hours for mechanical problems and 1 hour for electrical work if installation or functional problems occur.

To avoid unnecessary extra work and/or costs, an inquiry is to be sent straight away to the technical parts support via the After Sales Assistance Portal (ASAP).

Quote the following information:

- Chassis 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 made 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 warning text.

Information for the customer

Print out the “Customer information” chapter at the end of the installation instructions and give it to the customer.

Installation information

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 installation, cars without SA 640 (in-car telephone preparation) must have the retrofit programmed / coded via the - **Conversions** - path.

Ordering instructions

The adapter tray **I** or base plate **N** are not included in the retrofit kit and must be ordered separately on a vehicle-specific basis (see EPC for part number and further details).

On E83 cars without AUX socket, this must be retrofitted (see EPC for part number and further details).

List of special equipment

The following special equipment must be taken into consideration during installation:

SA 6FL USB/audio interface

SA 493 Storage package

SA 640 Car telephone preparation

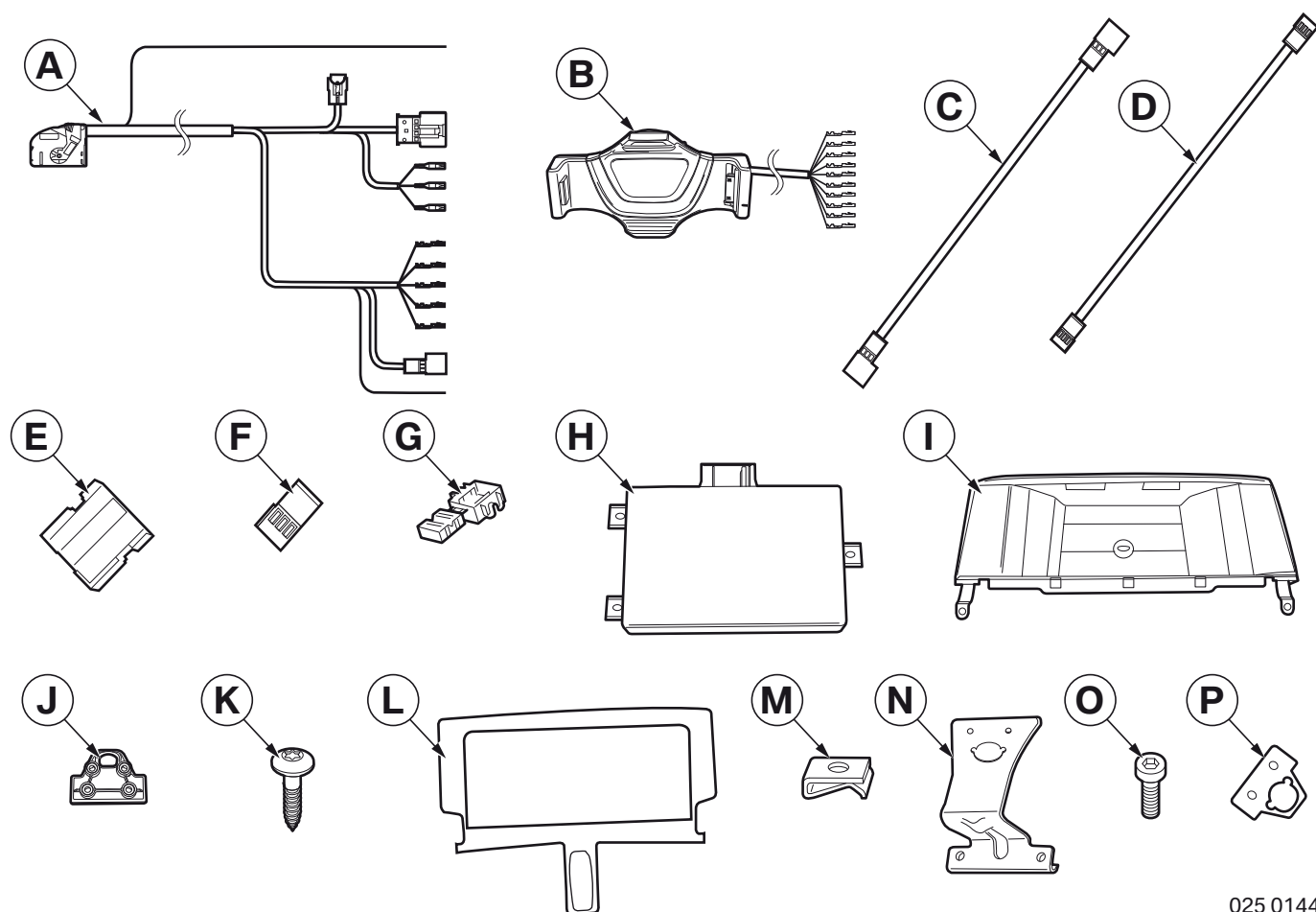
Special tools required

00 9 317, Installation wedges

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1. Parts list



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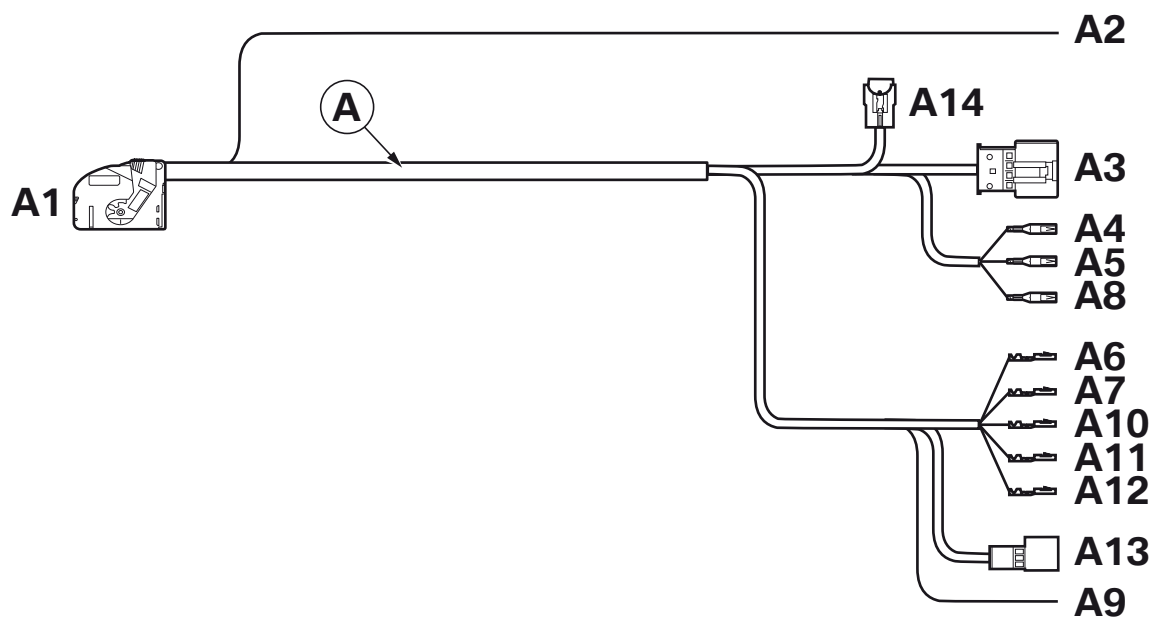
Legend

- A** Wiring harness
- B** BMW Station
- C** Auxiliary cable
- D** Auxiliary cable
- E** SW 4-pin socket casing
- F** SW 3-pin socket casing
- G** Miniature connector (2 x)
- H** Control unit
- I** Adapter tray (vehicle-specific, not supplied with the retrofit kit)
- J** Mounting plate
- K** Torx screw (4x)
- L** Template (for E81/E82/E87/E88 without SA 493 only, included with oddments tray **I**)
- M** Sheet metal nut (2x, for E81/E82/E87/E88 without SA 493 only, included with oddments tray **I**)
- N** Base plate (E9x cars only, not supplied with the retrofit kit)
- O** Allen screw (2x, for E9x only, part of base plate **N**)
- P** Intermediate plate (for E9x only, part of base plate **N**)

2. Preparatory work

	ISTA No.
Conduct a brief test	---
Disconnect the negative pole of the battery	12 00 ...
The following components must be removed first of all	
Radio receiver	65 11 080
Instrument holder storage compartment (not applicable to E81/E82/E87/E88 without SA 493)	51 45 460
Also for E81/E82/E87/E88 cars	
Remove and install the foot pedal trim	51 45 185
Glove box	51 16 366
Also for E90/E91/E92/E93 cars	
Remove and install the foot pedal trim	51 45 185
Right decorative strip	51 45 380
Glove box	51 16 366
Also for E84 cars	
Remove and install the foot pedal trim	51 45 185
	51 16 366
Also for E89 cars	
Remove and install the foot pedal trim	51 45 185
Also for F25 cars	
Remove and install the foot pedal trim	51 45 185
Cover on right dashboard	51 45 ...
Also for E83 cars	
Trim for the bottom right of the dashboard	51 45 ...
Also for cars with SA 6FL	
Centre arm rest storage compartment	51 16 172
AUX socket	61 31 134
Also for E83 cars without AUX socket	
Retrofit auxiliary connection for external audio sources (see EBA 01 29 0 153 504)	---

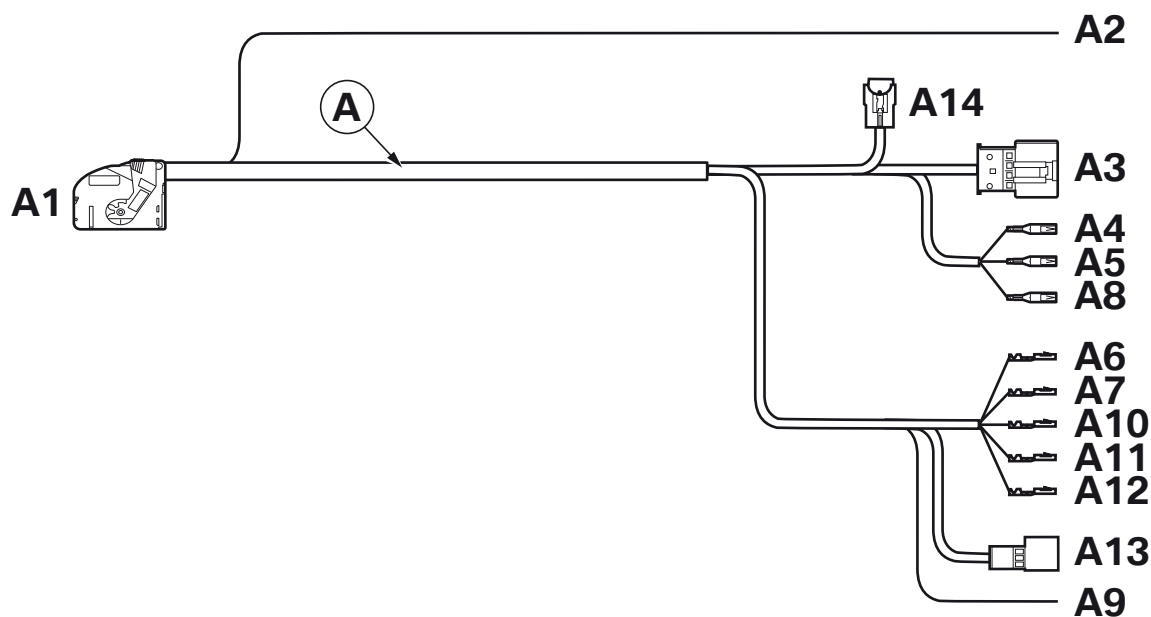
3. Connection diagram (E81/E82/E84/E87/E88/E89/E90/E91/E92/E93 cars only)



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Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/Slot
A	Wiring harness	---	---	---	---
A1	SW 32-pin socket casing	---	---	To control unit G	X9304
A2	Cable open	Terminal 15	RT/GR 0.35 mm ²	With miniature connector F to GN cable of the CAS control unit	X13376 PIN 8
A3	SW 4-pin pin housing	---	---	With socket casing E to the disconnected cables of the radio connector	X8523
A4	Socket contact	Terminal 30	RT 1.5 mm ²	To radio connector	X13812 PIN 15
A5	Socket contact	Terminal 31	BR 1.5 mm ²	To radio connector	X13812 PIN 12
A6	Socket contact	NF+	BL/SW 0.35 mm ²	Cars with multi-part radio connector only To radio connector Only cars with single-part radio connector To radio connector	X13813 PIN 6 X13813 PIN 34
A7	Socket contact	NF-	BL/BR 0.35 mm ²	Cars with multi-part radio connector only To radio connector Only cars with single-part radio connector To radio connector	X13813 PIN 12 X13812 PIN 40
A8	Socket contact	Mute	WS/BR 0.35 mm ²	To radio connector	X13812 PIN 10
A9	Cable open	Activ Call	BL 0.35 mm ²	Insulate and tie back	---

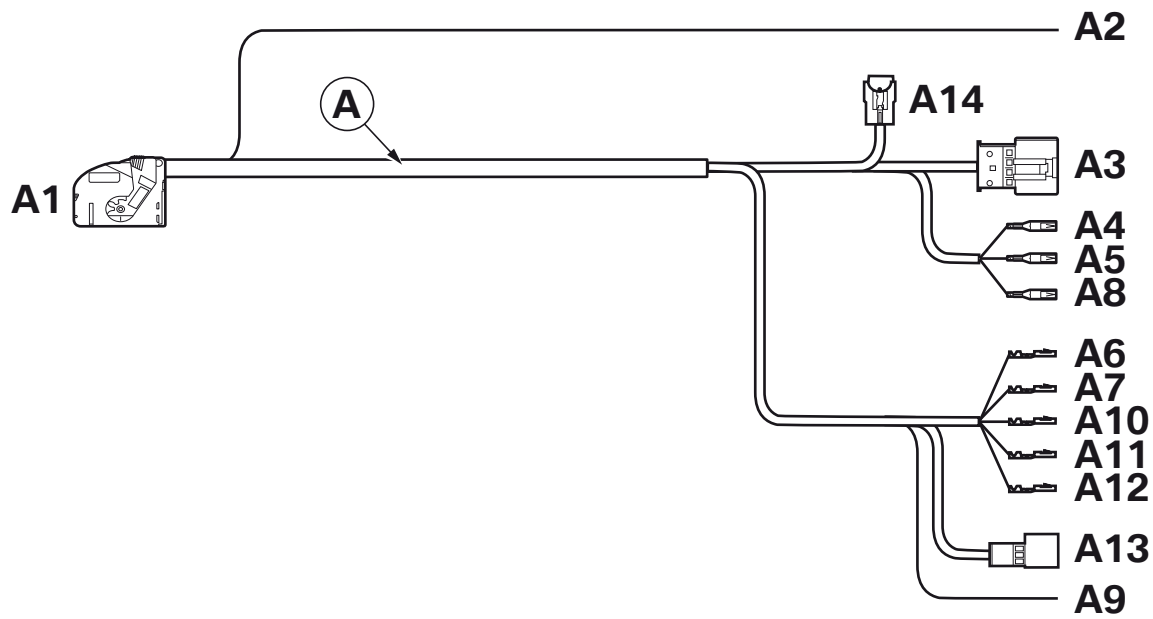
3. Connection diagram (E81/E82/E84/E87/E88/E89/E90/E91/E92/E93 cars only)



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Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/Slot
A	Wiring harness	---	---	---	---
A10	Socket contact	AUX R+	WS 0.35 mm ²	Only cars without SA 6FL and multi-part radio connector To radio connector Only cars without SA 6FL and single-part radio connector To radio connector Only cars with SA 6FL With socket casing F to branch C1	X13813 PIN 7 X13812 PIN 35 PIN 2
A11	Socket contact	AUX L+	BR/WS 0.35 mm ²	Only cars without SA 6FL and multi-part radio connector To radio connector Only cars without SA 6FL and single-part radio connector To radio connector Only cars with SA 6FL With socket casing F to branch C1	X13813 PIN 2 X13812 PIN 30 PIN 1
A12	Socket contact	AUX GND	Shield 0.35 mm ²	Only cars without SA 6FL and multi-part radio connector To radio connector Only cars without SA 6FL and single-part radio connector To radio connector Only cars with SA 6FL With socket casing F to branch C1	X13813 PIN 8 X13812 PIN 36 PIN 3
A13	SW 3-pin pin housing	---	---	Cars without SA 6FL only To socket casing F Only cars with SA 6FL To branch D1	---
A14	5 A fuse	---	---	---	---
A15	Socket contact	---	GE 0.35 mm ²	If present, insulate and tie back.	---
A16	Socket contact	---	SW 0.35 mm ²	If present, insulate and tie back.	---

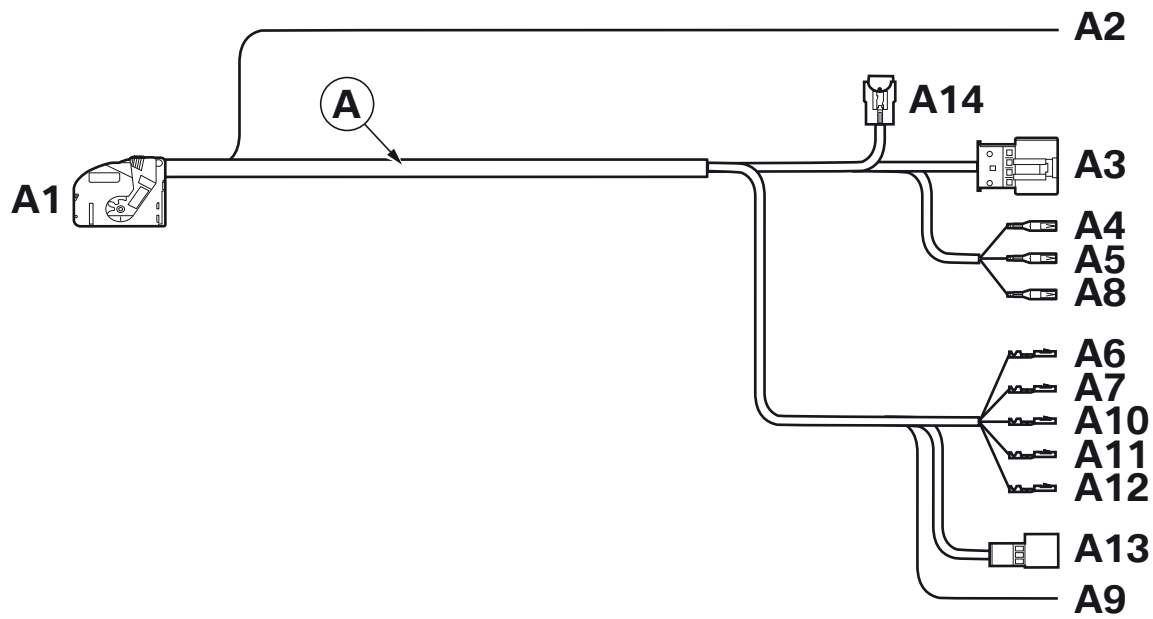
4. Connection diagram (F25 cars only)



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Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/Slot
A	Wiring harness	---	---	---	---
A1	SW 32-pin socket casing	---	---	To control unit G	X9304
A2	Cable open	Terminal 15	RT/GR 0.35 mm ²	With miniature connector F to GN cable of the CAS control unit	A16*1B PIN 1
A3	SW 4-pin pin housing	---	---	With socket casing E to the disconnected cables of the radio connector	X8523
A4	Socket contact	Terminal 30	RT 1.5 mm ²	To radio connector	A42*1B PIN 15
A5	Socket contact	Terminal 31	BR 1.5 mm ²	To radio connector	A42*1B PIN 12
A6	Socket contact	NF+	BL/SW 0.35 mm ²	To radio connector	A42*1B PIN 34
A7	Socket contact	NF-	BL/BR 0.35 mm ²	To radio connector	A42*1B PIN 40
A8	Socket contact	Mute	WS/BR 0.35 mm ²	To radio connector	A42*1B PIN 10
A9	Cable open	Activ Call	BL 0.35 mm ²	Insulate and tie back	---

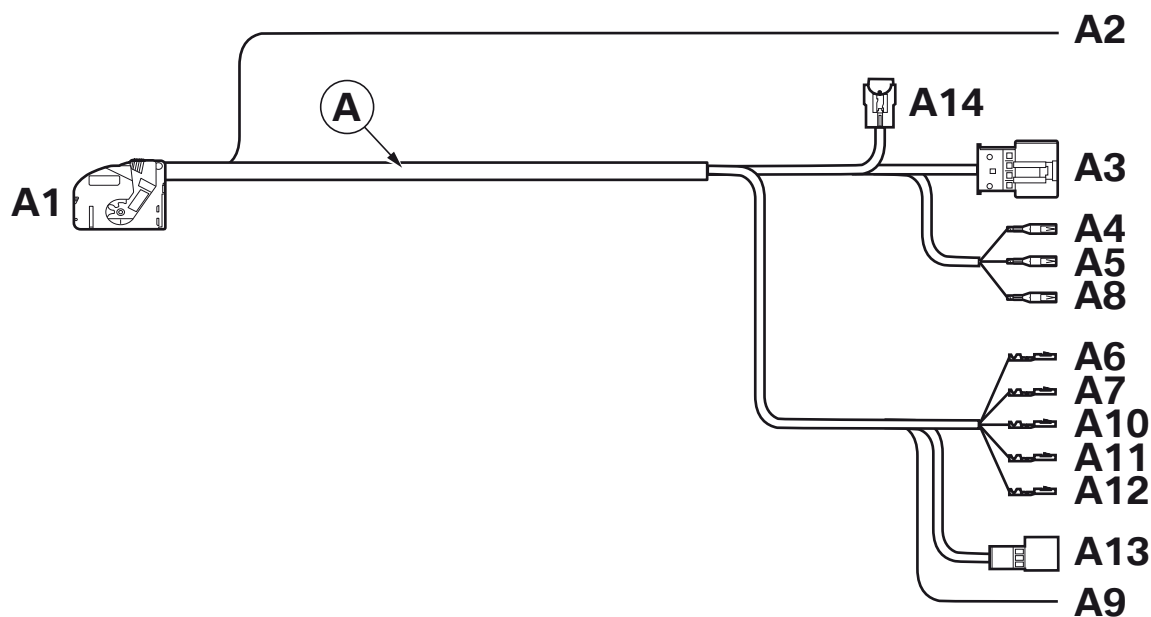
4. Connection diagram (F25 cars only)



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Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/Slot
A	Wiring harness	---	---	---	---
A10	Socket contact	AUX R+	WS 0.35 mm ²	Cars without SA 6FL only To radio connector Only cars with SA 6FL With socket casing F to branch C1	A42*1B PIN 35 PIN 2
A11	Socket contact	AUX L+	BR/WS 0.35 mm ²	Cars without SA 6FL only To radio connector Only cars with SA 6FL With socket casing F to branch C1	A42*1B PIN 30 PIN 1
A12	Socket contact	AUX GND	Shield 0.35 mm ²	Cars without SA 6FL only To radio connector Only cars with SA 6FL With socket casing F to branch C1	A42*1B PIN 36 PIN 3
A13	SW 3-pin pin housing	---	---	Cars without SA 6FL only To socket casing F Only cars with SA 6FL To branch D1	---
A14	5 A fuse	---	---	---	---
A15	Socket contact	---	GE 0.35 mm ²	If present, insulate and tie back.	---
A16	Socket contact	---	SW 0.35 mm ²	If present, insulate and tie back.	---

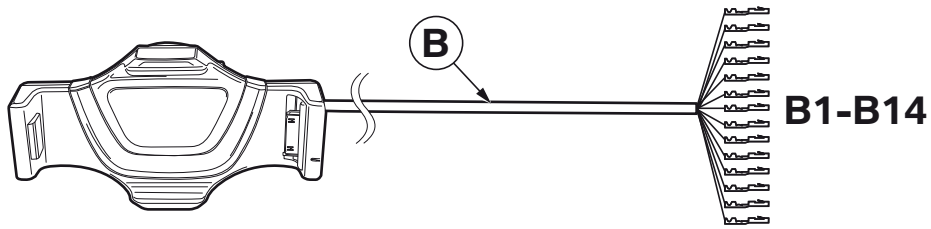
5. Connection diagram (E83 cars only)



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Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/Slot
A	Wiring harness	---	---	---	---
A1	SW 32-pin socket casing	---	---	To control unit G	X9304
A2	Cable open	Terminal 15	RT/GR 0.35 mm ²	With miniature connector F to VI/WS cable on the radio connector	X13646 PIN 16
A3	SW 4-pin pin housing	---	---	With socket casing E to the disconnected cables of the radio connector	X8523
A4	Socket contact	Terminal 30	RT 1.5 mm ²	To radio connector	X13646 PIN 15
A5	Socket contact	Terminal 31	BR 1.5 mm ²	To radio connector	X13646 PIN 12
A6	Socket contact	NF+	BL/SW 0.35 mm ²	To radio connector	X13649 PIN 6
A7	Socket contact	NF-	BL/BR 0.35 mm ²	To radio connector	X13649 PIN 12
A8	Socket contact	Mute	WS/BR 0.35 mm ²	To radio connector	X13646 PIN 10
A9	Cable open	Activ Call	BL 0.35 mm ²	Insulate and tie back	---
A10	Socket contact	AUX R+	WS 0.35 mm ²	To radio connector	X13649 PIN 7
A11	Socket contact	AUX L+	BR/WS 0.35 mm ²	To radio connector	X13649 PIN 2
A12	Socket contact	AUX GND	Shield 0.35 mm ²	To radio connector	X13649 PIN 8
A13	SW 3-pin pin housing	---	---	To socket casing F	---
A14	5 A fuse	---	---	---	---
A15	Socket contact	---	GE 0.35 mm ²	If present, insulate and tie back.	---
A16	Socket contact	---	SW 0.35 mm ²	If present, insulate and tie back.	---

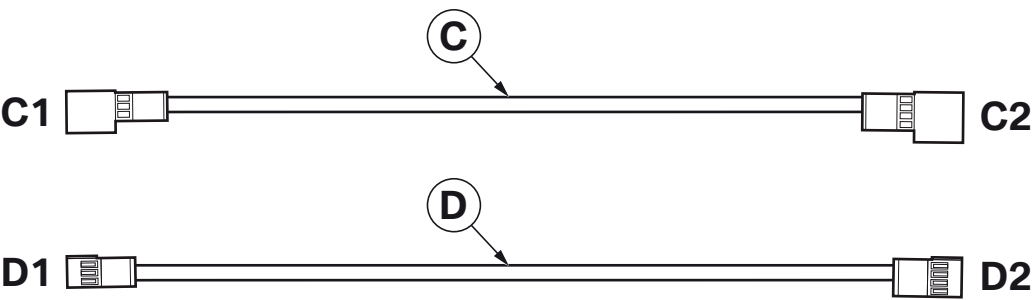
6. Connection diagram BMW Station (all cars)



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Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/Slot
B	BMW Station	---	---	---	---
B1	Socket contact	U-CH	VI 0.25 mm ²	In branch A1	X9304 PIN 18
B2	Socket contact	U-CH	RT 0.25 mm ²	In branch A1	X9304 PIN 19
B3	Socket contact	GND	BL 0.25 mm ²	In branch A1	X9304 PIN 1
B4	Socket contact	GND	SW 0.25 mm ²	In branch A1	X9304 PIN 2
B5	Socket contact	5V0	BR 0.25 mm ²	In branch A1	X9304 PIN 3
B6	Socket contact	BT-RXD	GR 0.16 mm ²	In branch A1	X9304 PIN 5
B7	Socket contact	BT-TXD	L-GN 0.16 mm ²	In branch A1	X9304 PIN 6
B8	Socket contact	BC-WDG	L-BL 0.16 mm ²	In branch A1	X9304 PIN 7
B9	Socket contact	BC5-Reset	OR 0.16 mm ²	In branch A1	X9304 PIN 8
B10	Socket contact	Audio L+	WS 0.16 mm ²	In branch A1	X9304 PIN 32
B11	Socket contact	Audio R+	GE 0.16 mm ²	In branch A1	X9304 PIN 16
B12	Socket contact	Audio GND	Shield 0.16 mm ²	In branch A1	X9304 PIN 15
B13	Socket contact	Mic +	PI 0.16 mm ²	In branch A1	X9304 PIN 26
B14	Socket contact	Mic -	D-GN 0.16 mm ²	In branch A1	X9304 PIN 27

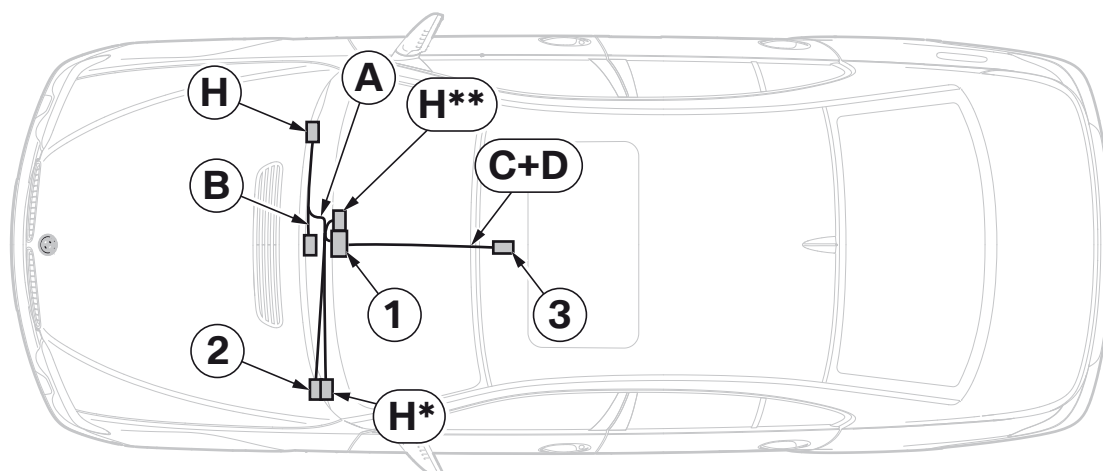
7. Auxiliary cable connection diagram (cars with SA 6FL only)



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Item	Designation	Signal	Cable colour/ Cross-section	Connection location in the car	Abbreviation/Slot
C	Auxiliary cable	---	---	Only cars with SA 6FL	---
C1	SW 3-pin pin housing	---	---	With socket casing F to branches A10-A12	---
C2	SW 4-pin pin housing	---	---	Cars with 4-pin plug on the AUX socket only To the disconnected plug of the AUX socket Cars with 6-pin plug on the AUX socket only To the disconnected cable of the plug from the AUX socket	---
		---	---		---
D	Auxiliary cable	---	---	Only cars with SA 6FL	---
D1	SW 3-pin socket casing	---	---	To branch A13	---
D2	SW 4-pin socket casing	---	---	To AUX socket	---

8. Installation and cabling diagram (E81/E82/E84/E87/E88/E89/E90/E91/E92/E93 cars only)

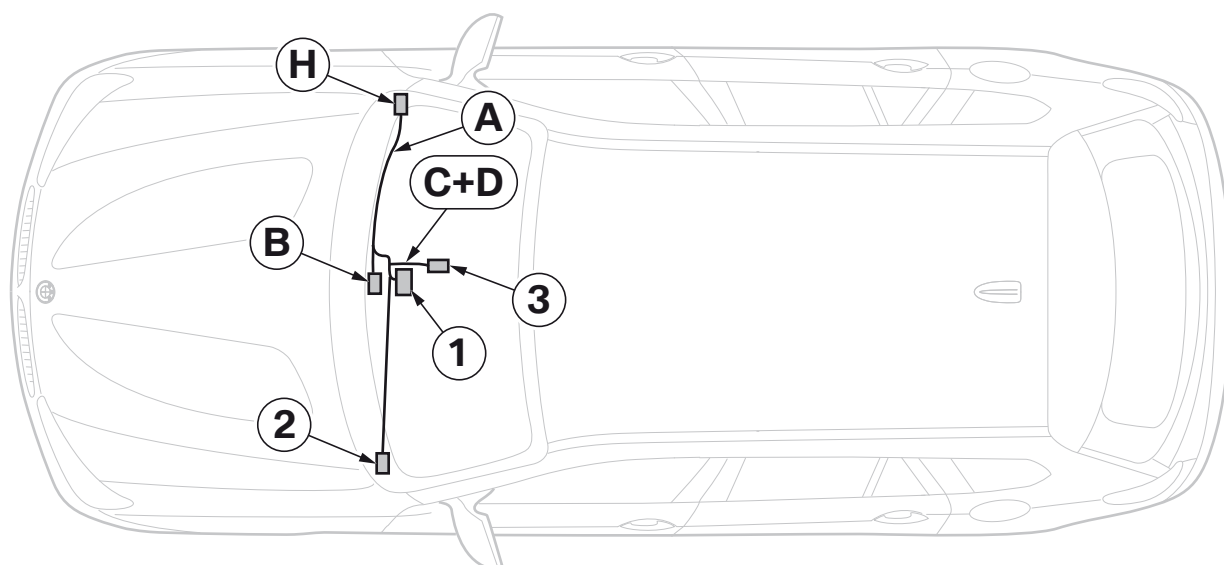


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- A** Wiring harness
- B** BMW Station
- C** Auxiliary cable
- D** Auxiliary cable
- H** Control unit (E81/E82/E87/E88/E90/E91/E92/E93 cars only)
- H*** Control unit (E84 cars only)
- H**** Control unit (E89 cars only)

- 1** Radio connector **X13812/X13813**
- 2** CAS control unit **X13376**
- 3** AUX socket

9. Installation and cabling diagram (F25 cars only)

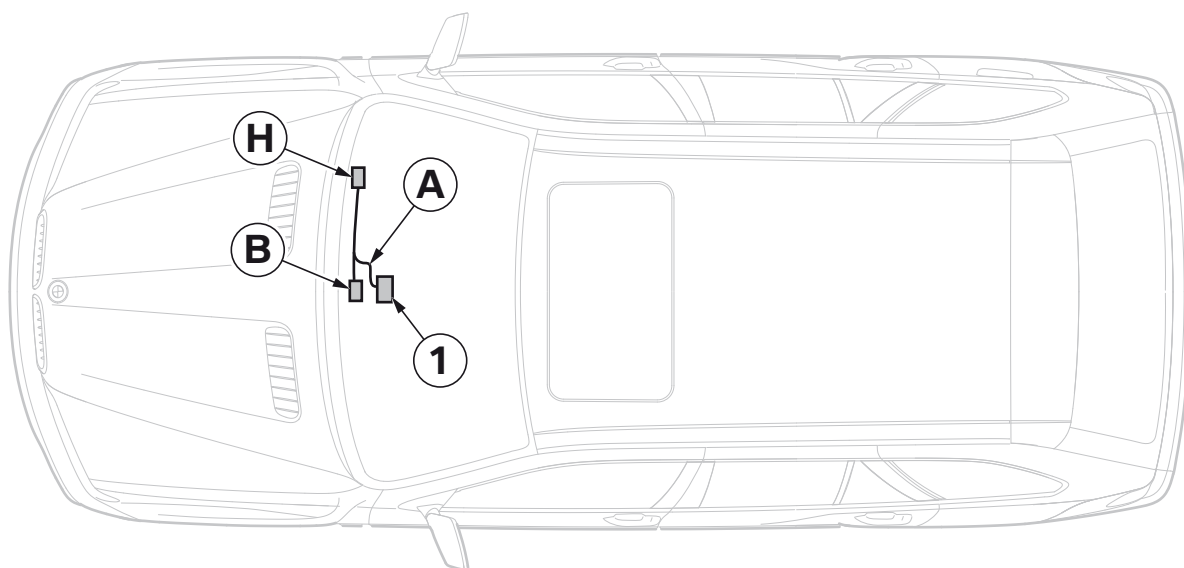


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- A** Wiring harness
- B** BMW Station
- C** Auxiliary cable
- D** Auxiliary cable
- H** Control unit

- 1** Radio connector **A42*1B**
- 2** CAS control unit **A16*1B**
- 3** AUX socket

10. Installation and cabling diagram (E83 cars only)



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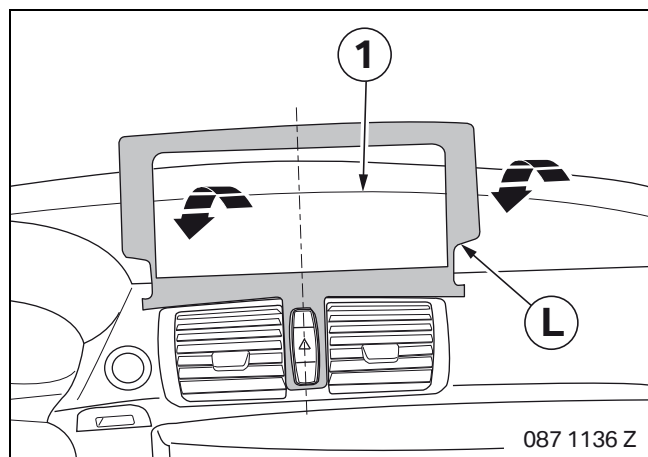
A Wiring harness

B BMW Station

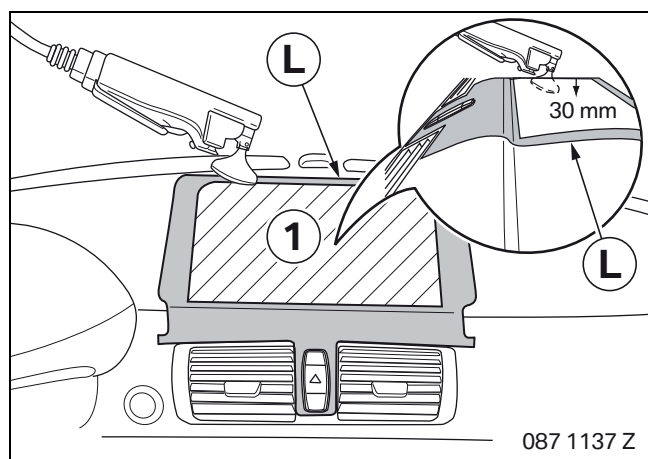
H Control unit

1 Radio connector **X13646/X13649**

11. Cutting the dashboard (E81/E82/E87/E88 without SA 493 cars only)



Place template **L** as shown on the dashboard (1).

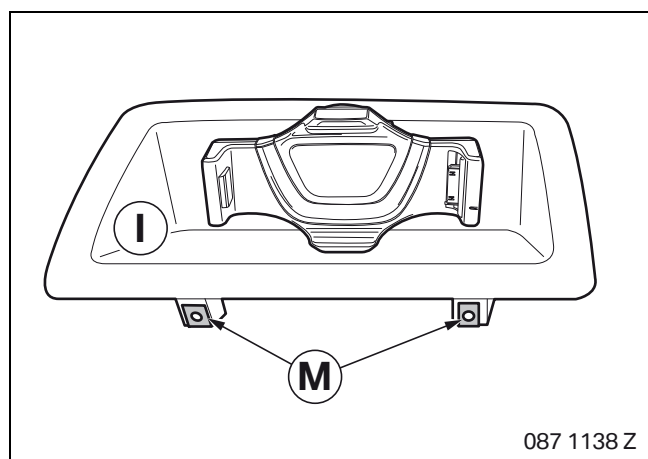


Ensure that the cutting depth of 30mm is not exceeded. ◀

Draw in the shaded area (1) on the inside of the template **L**.

Cut the shaded area (1) using a suitable tool.

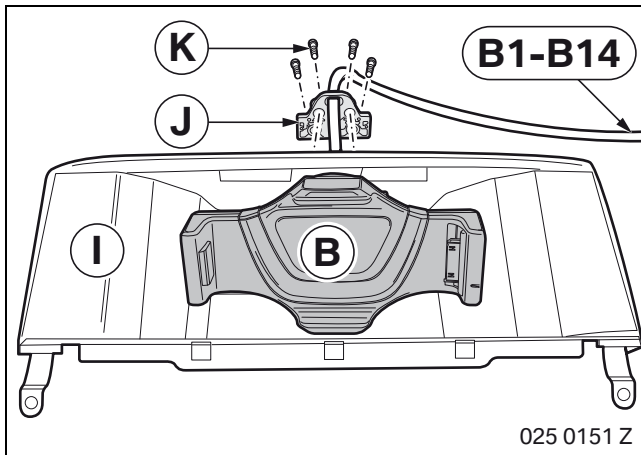
Remove centre fresh air grille as per ISTA 64 22 160.



Slide sheet metal nut **M** onto adapter tray **I**.

12. Installing the BMW Station (all cars except E9x)

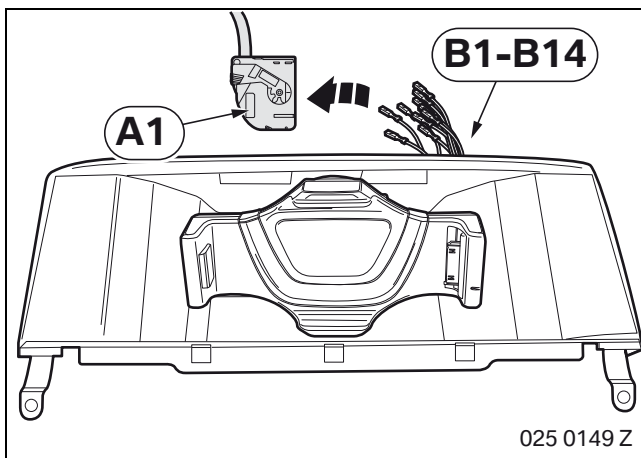
 The installation of the BMW Station is shown using the F25 as an example. Proceed accordingly with all other models. ◀



 Before the installation of BMW Station **B**, all four Torx screws **K** must be screwed in to just before their end point into BMW Station **B** and out again for pre-cutting of the threads. ◀

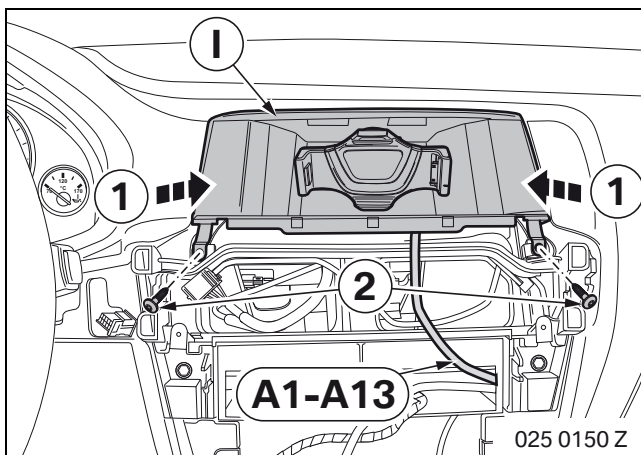
Guide branches **B1-B14** through adapter tray **I** and mounting plate **J**.

Screw BMW Station **B** with mounting plate **J** and Torx screws **K** onto adapter tray **I**.



Connect branches **B1-B14** as follows to branch **A1**:

- Branch **B1**, VI cable, to PIN 18
- Branch **B2**, RT cable, to PIN 19
- Branch **B3**, BL cable, to PIN 1
- Branch **B4**, SW cable, to PIN 2
- Branch **B5**, BR cable, to PIN 3
- Branch **B6**, GR cable, to PIN 5
- Branch **B7**, L-GN cable, to PIN 6
- Branch **B8**, L-BL cable, to PIN 7
- Branch **B9**, OR cable, to PIN 8
- Branch **B10**, WS cable, to PIN 32
- Branch **B11**, GE cable, to PIN 16
- Branch **B12**, shield, to PIN 15
- Branch **B13**, PI cable, to PIN 26
- Branch **B14**, D-GN cable, to PIN 27



 Adapter tray **I** must lie flush on all sides with the dashboard and have no gaps. ◀

Push adapter tray **I** on from the side (1) and screw into place with original screws (2) onto the dashboard.

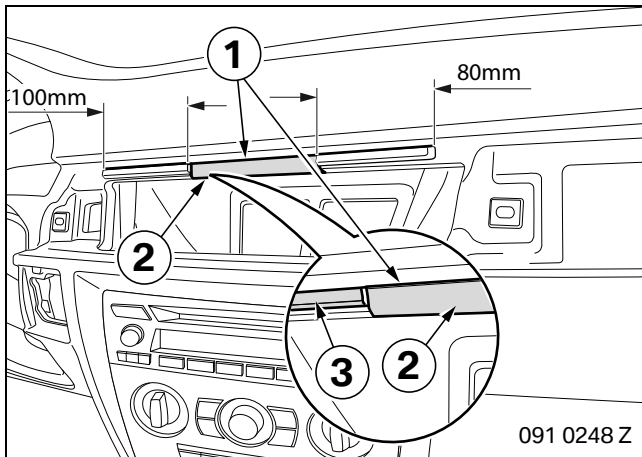
Route branches **A1** as follows:

- E81/E82/E87/E88:
to the right dashboard
- E84: to the left dashboard
- E89: to the radio

Route branches **A2-A13** as follows:

- branch **A2** to the CAS control unit (E81/E82/E84/E87/E88/E89/F25) or to the radio (E83)
- Branches **A3-A13** to the radio

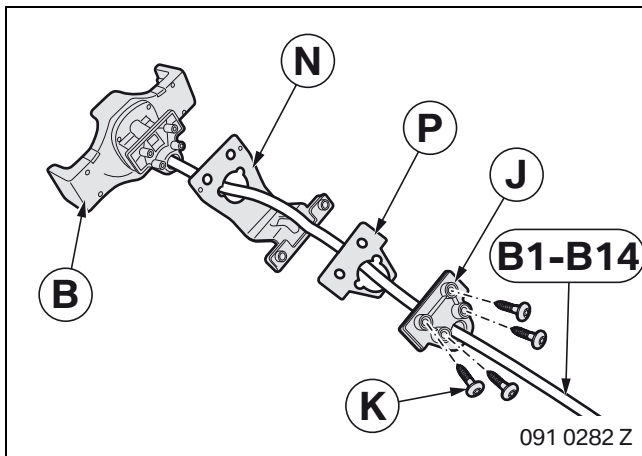
13. Installing the BMW Station (E90/E91/E92/E93 cars only)



! In order not to damage the visible parts of the dashboard (2), the cut-out should only be made up to the top edge of the bulged area (3). The impact protection further up is compressed when the holder is placed on. ◀

▶ The cut into the dashboard (2) must be made precisely below the edge (1). Only cut out impact protection. Do not damage the base plate. ◀

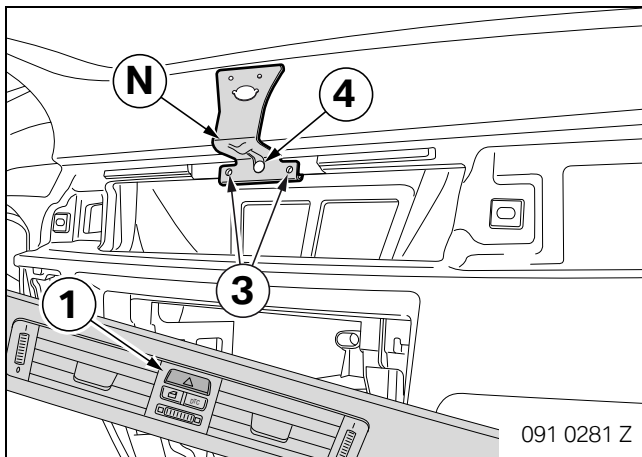
Cut out the dashboard (2) using a suitable tool using the dimensions shown.



▶ Before the installation of BMW Station **B**, all four Torx screws **K** must be screwed in to just before their end point into BMW Station **B** and out again for pre-cutting of the threads. ◀

Guide branches **B1-B14** through base plate **N**, intermediate plate **P** and mounting plate **J**.

Screw BMW Station **B** using intermediate plate **P**, mounting plate **J** and Torx screws **K** to base plate **N**.



▶ Base plate **N** must be located centrally over the hazard warning switch (1). ◀

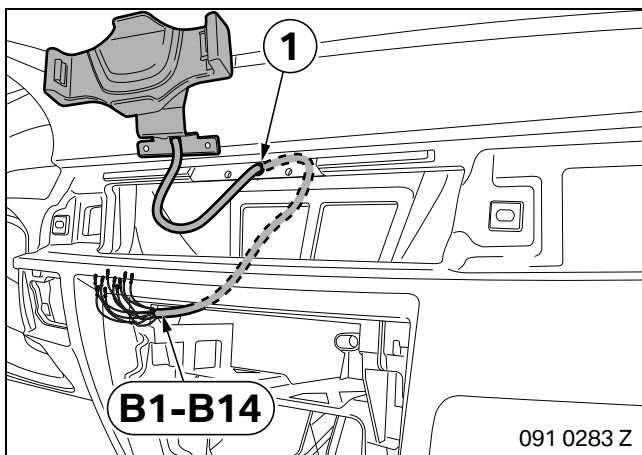
Place base plate **N** on the dashboard and push it upwards until base plate **N** lies on the dashboard.

Draw in drill holes (3) and (4).

Remove base plate **N**.

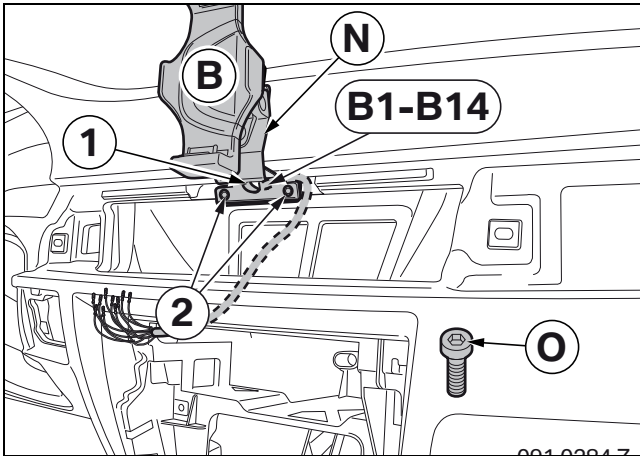
Drill holes (3) with a spiral, 4 mm drill bit.

Drill holes (4) with a spiral, 8 mm drill bit.



Guide branches **B1-B14** through the hole (1).

13. Installing the BMW Station (E90/E91/E92/E93 cars only)

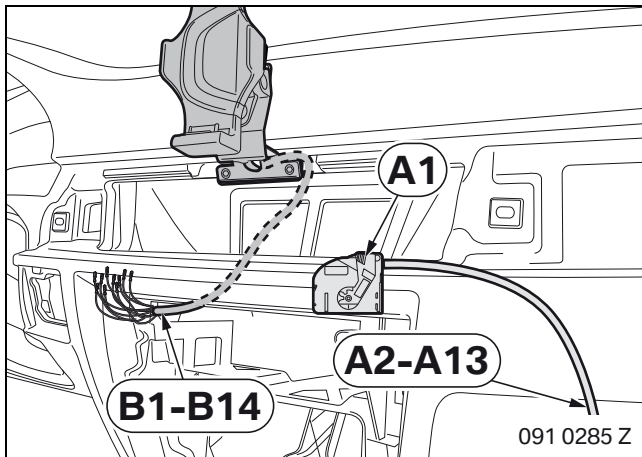


▶ Ensure that the wiring harness is routed under base plate **N**. Ensure that branches **B1-B14** are in the cut-out section (1) of base plate **N**. ◀

Rotate BMW Station **B** to a vertical position.

Place base plate **N** on the dashboard.

Screw base plate **N** using Allen screws **O** to the drill holes (2).



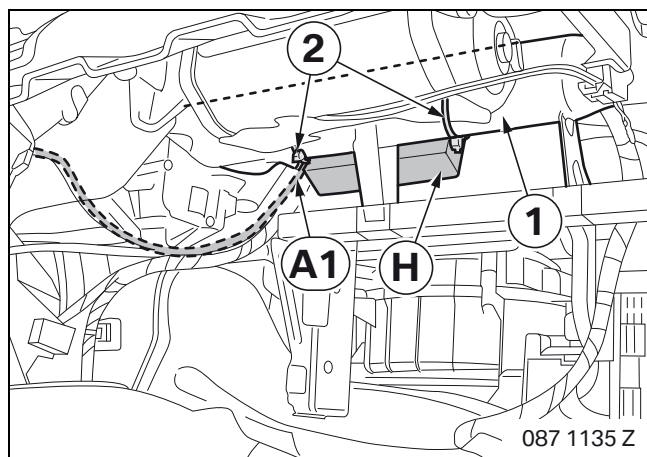
Connect branches **B1-B14** as follows to branch **A1**:

- Branch **B1**, VI cable, to PIN 18
- Branch **B2**, RT cable, to PIN 19
- Branch **B3**, BL cable, to PIN 1
- Branch **B4**, SW cable, to PIN 2
- Branch **B5**, BR cable, to PIN 3
- Branch **B6**, GR cable, to PIN 5
- Branch **B7**, L-GN cable, to PIN 6
- Branch **B8**, L-BL cable, to PIN 7
- Branch **B9**, OR cable, to PIN 8
- Branch **B10**, WS cable, to PIN 32
- Branch **B11**, GE cable, to PIN 16
- Branch **B12**, shield, to PIN 15
- Branch **B13**, PI cable, to PIN 26
- Branch **B14**, D-GN cable, to PIN 27

Route branches **A1-A13** as follows:

- Branch **A1** to the left dashboard
- Branch **A2** to the CAS control unit
- Branches **A3-A13** to the radio

14. Installing the wiring harness and control unit (E81/E82/E84/E87/E88/E89/E90/E91/E92/E93 cars only)

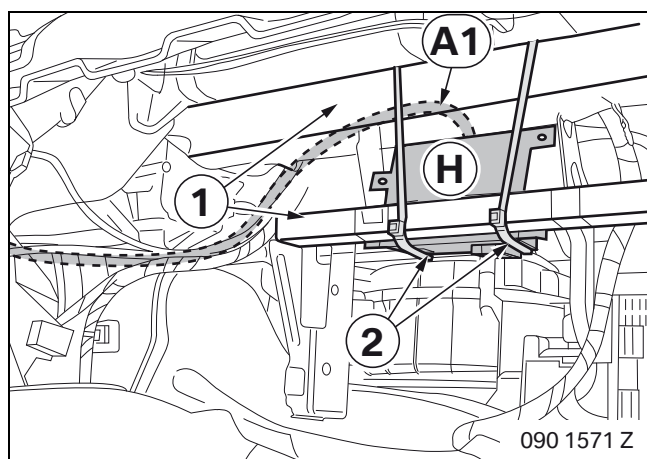


E81/E82/E87/E88 cars only

Connect branch **A1** to control unit **H**.

▶ Attach the cable ties so that the retaining lugs of the glove compartment can be inserted without difficulty during installation. ◀

Secure control unit **H** using cable ties (2) to the tube (1).

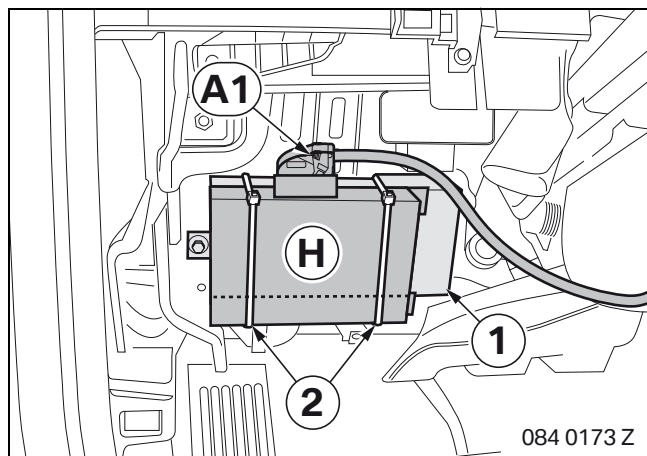


E90/E91/E92/E93 cars only

Connect branch **A1** to control unit **H**.

▶ Attach the cable ties so that the retaining lugs of the glove compartment can be inserted without difficulty during installation. ◀

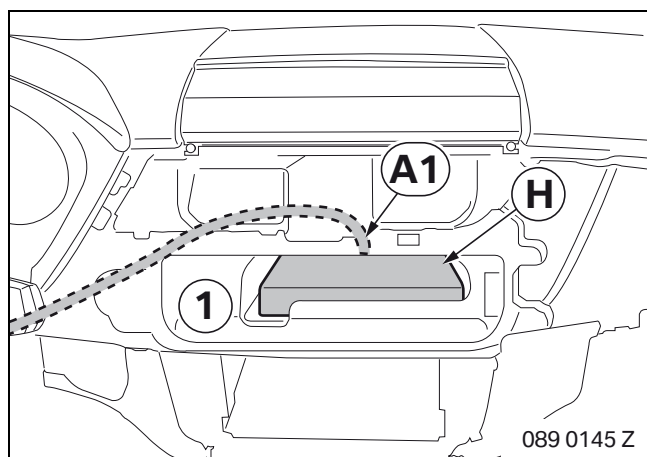
Secure control unit **H** using cable ties (2) to the tubes (1).



E84 cars only

Connect branch **A1** to control unit **H**.

Secure control unit **H** using cable ties (2) to the CAS control unit (1).

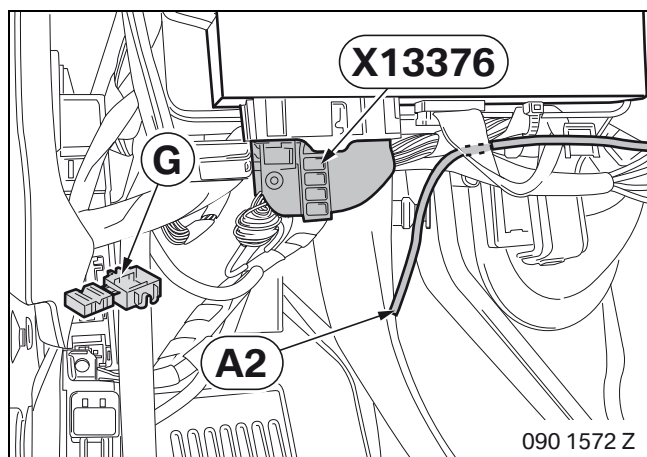


E89 cars only

Connect branch **A1** to control unit **H**.

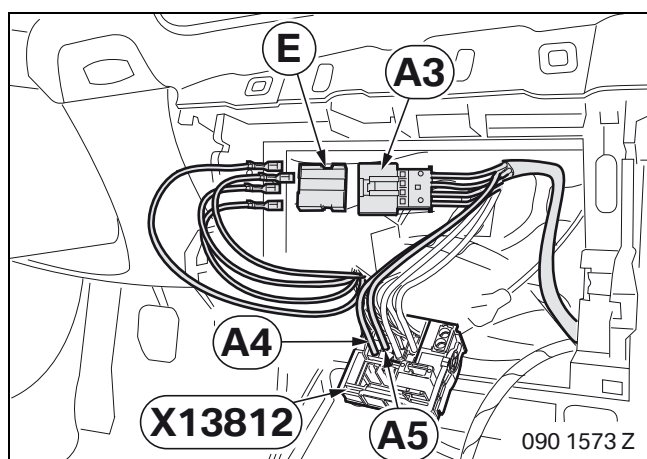
Secure control unit **H** using double-sided adhesive tape (workshop material) to the dashboard.

14. Installing the wiring harness and control unit (E81/E82/E84/E87/E88/E89/E90/E91/E92/E93 cars only)



All cars

Connect branch **A2**, RT/GN cable, using miniature connector **G** to PIN 8, GN cable, of plug **X13376** on the CAS control unit.



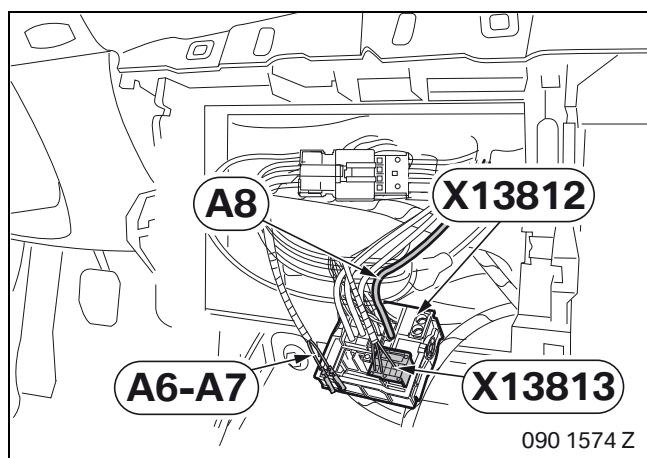
Connect the cables (1) as follows from radio connector **X13812** and connect to socket casing **E**:

- RT/GN cable from PIN 15 to socket casing **E** PIN 3
- BR cable from PIN 12 to socket casing **E** PIN 2

Connect branches **A4** and **A5** to radio connector **X13812** as follows:

- Branch **A4**, RT cable, to PIN 15
- Branch **A5**, BR cable, to PIN 12

Connect branch **A3** to socket casing **E**.



Connect branch **A8**, WS/BR cable, to radio connector **X13812** PIN 10.

Cars with multi-part radio connector only

Connect branch **A6**, BL/SW cable, to radio connector **X13813**, PIN 6.

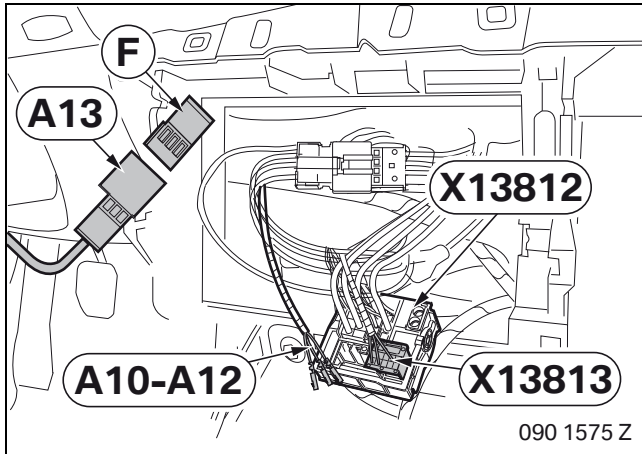
Connect branch **A7**, BL/BR cable, to radio connector **X13813**, PIN 12.

Only cars with single-part radio connector

Connect branch **A6**, BL/SW cable, to radio connector **X13812**, PIN 34.

Connect branch **A7**, BL/BR cable, to radio connector **X13812**, PIN 40.

14. Installing the wiring harness and control unit (E81/E82/E84/E87/E88/E89/E90/E91/E92/E93 cars only)



Only cars without SA 6FL and multi-part radio connector

Disconnect the cables as follows from radio connector **X13813** and connect to socket casing **F**:

- WS/BL or SW cable from PIN 2 to socket casing **F** PIN 3
- WS/BR or GE cable from PIN 7 to socket casing **F** PIN 2
- WS/RT or shield cable from PIN 8 to socket casing **F** PIN 1

Connect socket casing **F** to branch **A13**.

Connect branch **A10**, WS cable, to radio connector **X13813**, PIN 7.

Connect branch **A11**, BR/WS cable, to radio connector **X13813**, PIN 2.

Connect branch **A12**, shield, to radio connector **X13813**, PIN 8.

Only cars without SA 6FL and single-part radio connector

Disconnect the cables as follows from radio connector **X13812** and connect to socket casing **F**:

- WS/BL or SW cable from PIN 30 to socket casing **F** PIN 3
- WS/BR or GE cable from PIN 35 to socket casing **F** PIN 2
- WS/RT cable or shield from PIN 36 to socket casing **F** PIN 1

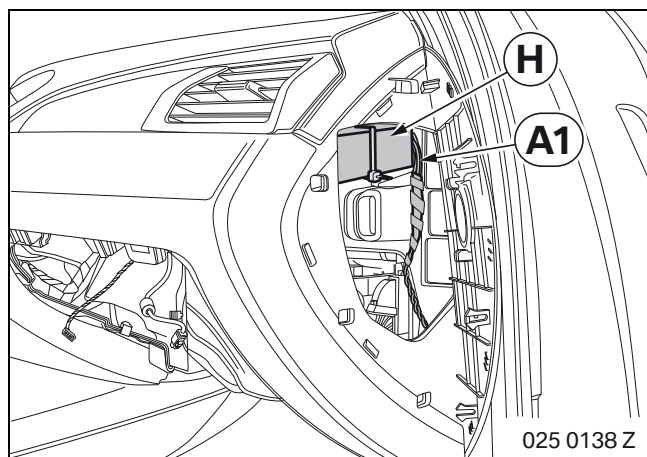
Connect socket casing **F** to branch **A13**.

Connect branch **A10**, WS cable, to radio connector **X13812**, PIN 35.

Connect branch **A11**, BR/WS cable, to radio connector **X13812**, PIN 30.

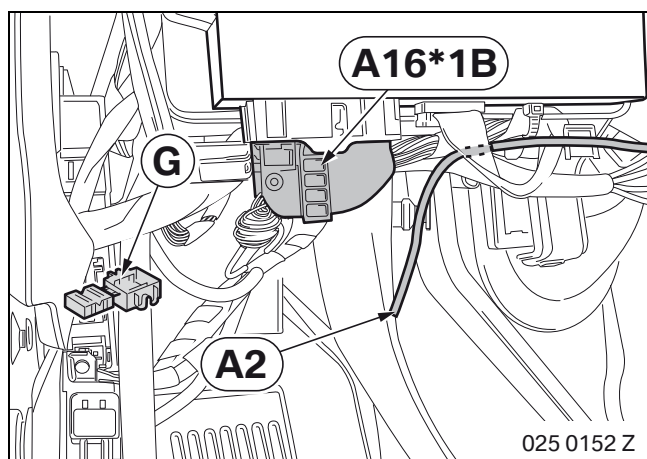
Connect branch **A12**, shield, to radio connector **X13812**, PIN 36.

15. Installing the wiring harness and control unit (F25 cars only)

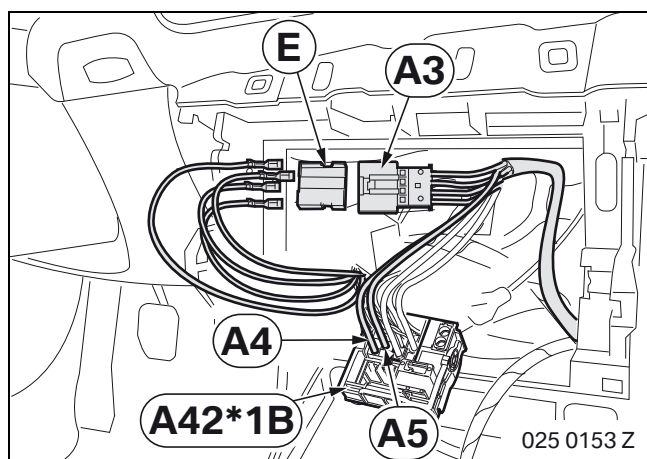


Connect branch **A1** to control unit **H**.

Secure control unit **H** using cable ties to the air duct.



Connect branch **A2**, RT/GN cable, using miniature connector **G** to PIN 1, GN cable, of plug **A16*1B** on the CAS control unit.



Disconnect the cables (1) as follows from radio connector **A42*1B** and connect to socket casing **E**:

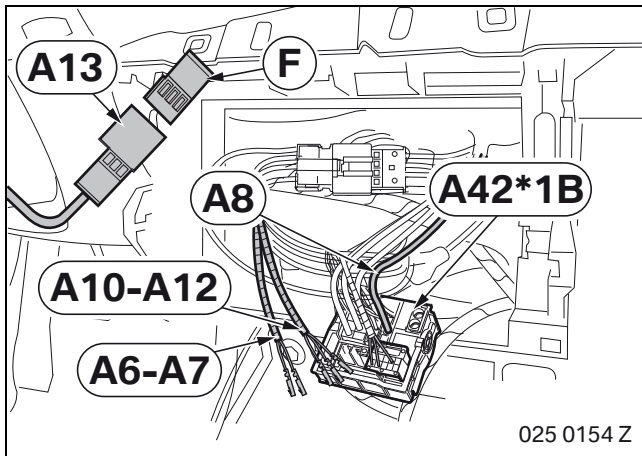
- RT/GN cable from PIN 15 to socket casing **E** PIN 3
- BR cable from PIN 12 to socket casing **E** PIN 2

Connect branches **A4** and **A5** to radio connector **A42*1B** as follows:

- Branch **A4**, RT cable, to PIN 15
- Branch **A5**, BR cable, to PIN 12

Connect branch **A3** to socket casing **E**.

15. Installing the wiring harness and control unit (F25 cars only)



Connect branches **A6-A12** as follows to radio connector **A42*1B**:

- Branch **A6**, BL/SW cable, to PIN 34
- Branch **A7**, BL/BR cable, to PIN 40
- Branch **A8**, WS/BR cable, to PIN 10

Cars without SA 6FL only

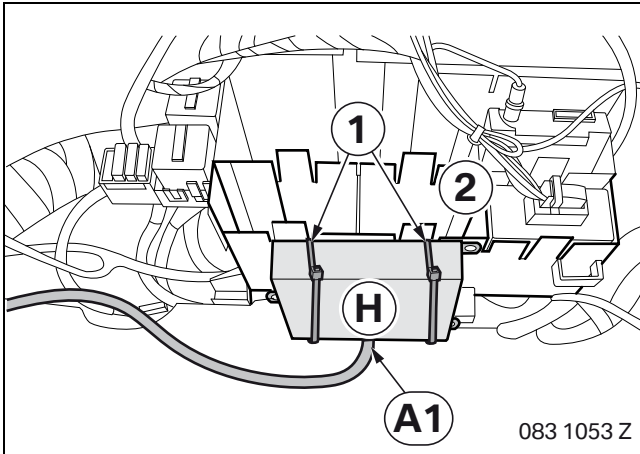
Disconnect the cables as follows from radio connector **A42*1B** and connect to socket casing **F**:

- WS/BL or SW cable from PIN 30 to socket casing **F** PIN 3
- WS/BR or GE cable from PIN 35 to socket casing **F** PIN 2
- WS/RT cable or shield from PIN 36 to socket casing **F** PIN 1

Connect socket casing **F** to branch **A13**.

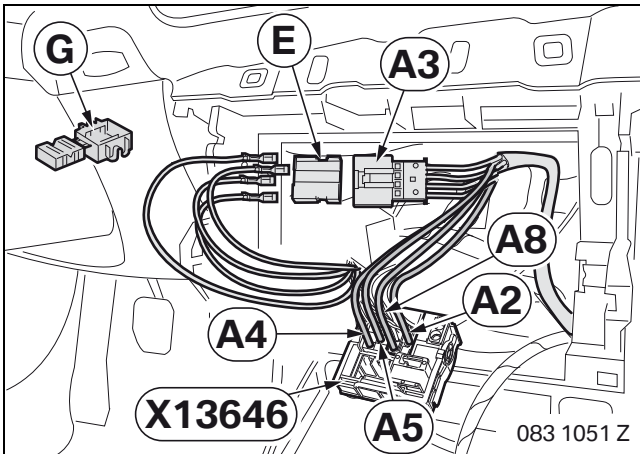
- Branch **A10**, WS cable, to PIN 35
- Branch **A11**, BR/WS cable, to PIN 30
- Branch **A12**, shield, to PIN 36

16. Installing the wiring harness and control unit (E83 cars only)



Connect branch **A1** to control unit **H**.

Secure control unit **H** using cable ties (1) to the control unit holder (2).



Connect branch **A2**, RT/GN cable, with miniature connector **G** to the GN/RT cable of plug **X13646** PIN 16.

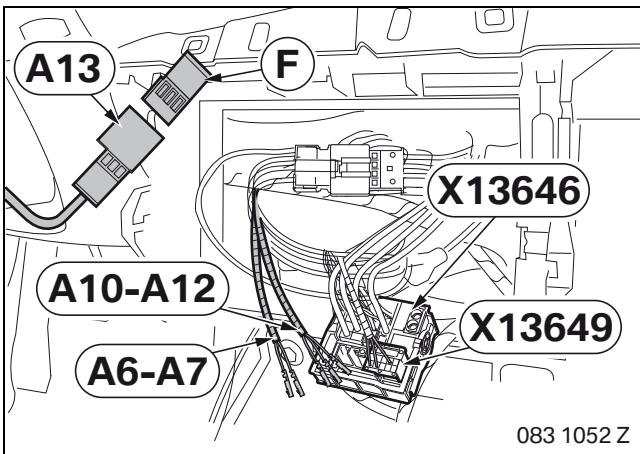
Disconnect the cables (1) as follows from radio connector **X13646** and connect to socket casing **E**:

- RT/GN cable from PIN 15 to socket casing **E** PIN 3
- BR cable from PIN 12 to socket casing **E** PIN 2

Connect branches **A4**, **A5** and **A8** as follows to radio connector **X13646**:

- Branch **A4**, RT cable, to PIN 15
- Branch **A5**, BR cable, to PIN 12
- Branch **A8**, WS/BR cable, to PIN 10

Connect branch **A3** to socket casing **E**.



Disconnect the cables as follows from radio connector **X13646** and connect to socket casing **F**:

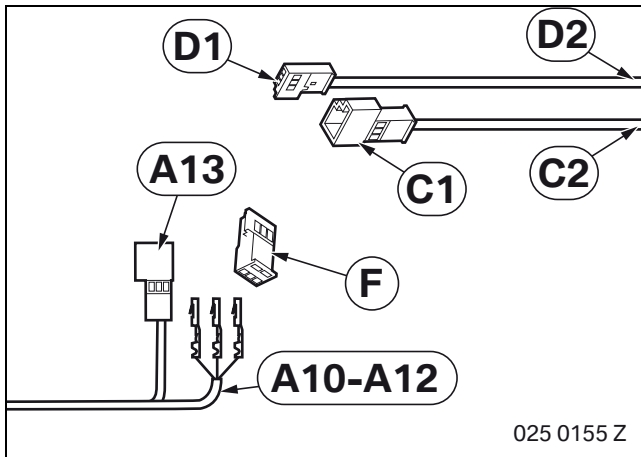
- WS/BL or SW cable from PIN 2 to socket casing **F** PIN 3
- WS/BR or GE cable from PIN 7 to socket casing **F** PIN 2
- WS/RT or shield cable from PIN 8 to socket casing **F** PIN 1

Connect socket casing **F** to branch **A13**.

Connect the following branches to radio connector **X13649**:

- Branch **A6**, BL/SW cable, to PIN 6
- Branch **A7**, BL/BR cable, to PIN 12
- Branch **A10**, WS cable, to PIN 7
- Branch **A11**, BR/WS cable, to PIN 2
- Branch **A12**, shield, to PIN 8

17. Installing and connecting the auxiliary cable (cars with SA 6FL only)



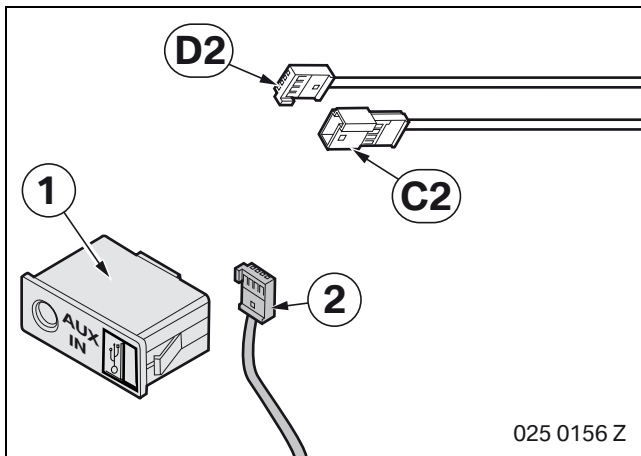
Connect branches **A10-A12** as follows to socket casing **F**:

- Branch **A10**, WS cable, to PIN 1
- Branch **A11**, BRWS cable, to PIN 2
- Branch **A12**, shield, to PIN 3

Connect socket casing **F** to branch **C1** of auxiliary cable **C**.

Connect branch **A13**, SW 3-pin pin housing, to branch **D1** of auxiliary cable **D**.

Route branches **C2** and **D2** to the AUX socket.

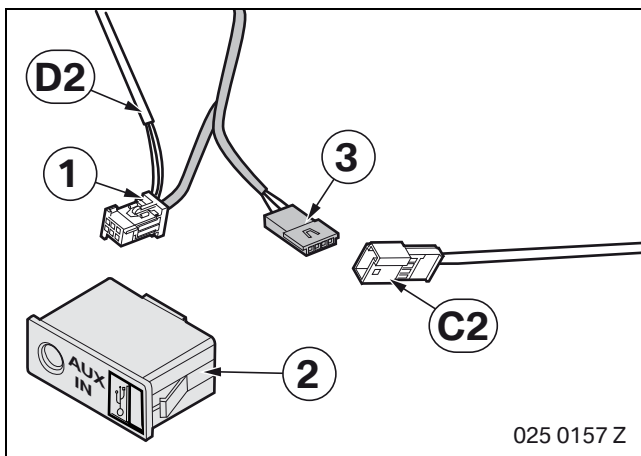


Cars with 4-pin plug on the AUX socket only

▶ If a cable is connected to PIN 1 of the AUX connector (2), disconnect the cable and connect it to PIN 1 of branch **D2**. ◀

Disconnect the AUX plug (2) from the AUX socket (1) and connect to branch **C2**.

Connect branch **D2** to the AUX socket (1).



Cars with 6-pin plug on the AUX socket only

Disconnect the cables from branch **D2** (SW 4-pin socket casing (3) is still required).

Disconnect AUX plug (1), SW 6-pin socket casing, from the AUX socket (2).

Disconnect the cables from PIN 1, 3 and 4 AUX plug and connect as follows to SW 4-pin socket casing (3):

- WS/RT cable from PIN 1 to PIN 4
- VI cable from PIN 3 to PIN 2
- WS/GN cable from PIN 4 to PIN 3

Connect socket casing (3) to branch **C2**.

Connect the disconnected cables from branch **D2** as follows to the AUX plug (1):

- WS cable from PIN 2 to PIN 3
- SW cable from PIN 3 to PIN 4
- GE cable from PIN 4 to PIN 1

Connect AUX plug (1) to AUX socket (2).

18. Concluding work and coding

The retrofit system requires coding for cars without SA 640.

- Connect the battery

Cars without SA 640 only

- Carry out a vehicle test using the ISTA system and note or work through any entered error memory
- Change in ISTA/P car programming

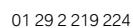
 Should the "IPHO" retrofit not be selectable for F25 cars, the retrofit must be coded to "Portable navigation". ◀

- Select "Telephone preparation=SA640" retrofit on E8x/E9x cars or "IPHO" on F25 cars 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

All cars

- Conduct a brief test
- Re-fit the car components as required

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8/2011

 (Z/Z)

19. Wiring diagram (all cars)

Legend

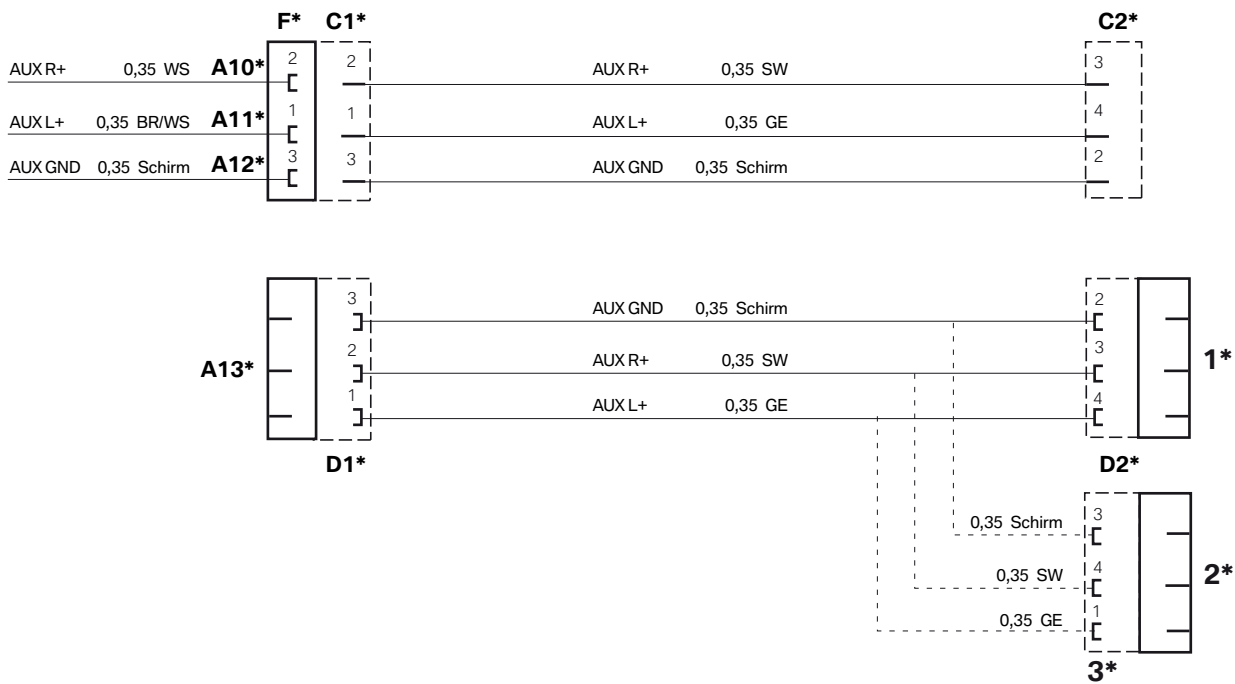
- A1** SW 32-pin socket casing, to control unit **H**
- A2** - E81/E82/E84/E87/E88/E89/E90/E91/E92/E93:
open cable, with miniature connector to PIN 8 of plug **X1337** of the CAS control unit
- F25:
open cable, with miniature connector to PIN 1 of plug **A16*1B** of the CAS control unit
- E83:
open cable, with miniature connector to PIN 16 of the radio connector **X13646**
- A3** SW 4-pin pin housing, to socket casing **E***
- A4** Socket contact, to PIN 15 of radio connector **X13646/X13812/A42*1B**
- A5** Socket contact, to PIN 12 of radio connector **X13646/X13812/A42*1B**
- A6** Socket contact, to PIN 6 of multi-part radio connector **X13813/X13649** or PIN 34 of single-part radio connector **X13646/X13812/X42*1B**
- A7** Socket contact, to PIN 12 of multi-part radio connector **X13813/X13649** or PIN 40 of single-part radio connector **X13646/X13812/X42*1B**
- A8** Socket contact, to PIN 10 of radio connector **X13646/X13812/A42*1B**
- A9** Not required
- A10** - Cars without SA 6FL:
Socket contact, to PIN 7 of multi-part radio connector **X13813/X13649** or PIN 35 of single-part radio connector **X13646/X13812/X42*1B**
- Cars with SA 6FL:
Socket contact, with socket casing **F*** to branch **C1***
- A11** - Cars without SA 6FL:
Socket contact, to PIN 2 of multi-part radio connector **X13813/X13649** or PIN 30 of single-part radio connector **X13646/X13812/X42*1B**
- Cars with SA 6FL:
Socket contact, with socket casing **F*** to branch **C1***
- A12** - Cars without SA 6FL:
Socket contact, to PIN 8 of multi-part radio connector **X13813/X13649** or PIN 36 of single-part radio connector **X13646/X13812/X42*1B**
- Cars with SA 6FL:
Socket contact, with socket casing **F*** to branch **C1***
- A13** - Cars without SA 6FL:
SW 3-pin pin housing, to socket casing **F***
- Cars with SA 6FL:
SW 3-pin pin housing, to branch **D1***
- A14** 5 A fuse

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

Cable colours

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

20. Wiring diagram (cars with SA 6FL only)



025 0159 Z

Legend

- C1*** SW 3-pin pin housing, with socket casing **F*** to branches **A10*** - **A12***
- C2*** SW 4-pin pin housing, to the plug of the AUX socket with 4-pin connector or to disconnected cables from the AUX socket with 6-pin connector
- D1*** SW 3-pin socket casing, to branch **A13***
- D2*** SW 4-pin socket casing, to AUX socket **1*** (with 4-pin connector)
- 3*** SW 6-pin socket casing, to AUX socket **2*** (with 6-pin connector)

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

Cable colours

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

21. Information for the customer

Enclose this customer information with the car's Owner's Manual and make it available to the service workshop in the event of maintenance and repair work involving the BMW Station.

Insert the iPhone into the BMW Station

Plug your iPhone in.

Press your iPhone on the opposite side until it engages into the BMW Station.

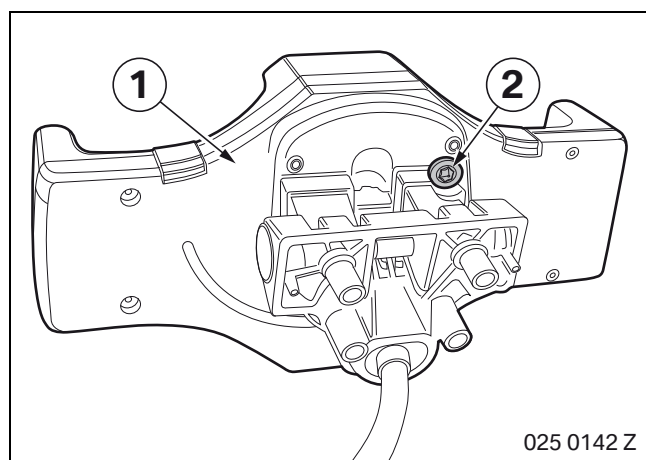
When the iPhone is docked, the car's AUX connection is disabled.

Remove the iPhone from the BMW Station

Pull your iPhone out on the opposite side of the plug.

When the iPhone is removed, the car's AUX connection is enabled.

Turn the BMW Station



 Comply with national regulations. During journeys, your iPhone must be in a horizontal position. ◀

To rotate your iPhone in the BMW Station (1) by 90°, the screw (2) on the back of the BMW Station (1) must be removed.

Coupling/connecting the iPhone with the BMW Station via Bluetooth

If other Bluetooth devices were previously connected to the car, Bluetooth may need to be disabled on the last device to be connected so that the car is able to recognise the iPhone you wish to couple.

1. Switch the ignition on
2. Place your iPhone in the BMW Station
3. Activate Bluetooth on your iPhone and wait until >BMW Station< appears in the list of found devices
4. Select >BMW Station<, enter PIN code >1234< and confirm with >Connect<.

If connection is successful, the Bluetooth link is established automatically.

If you remove your iPhone from the BMW Station while the Bluetooth connection is running, Bluetooth mode is ended. When you replace your iPhone back in the BMW Station, the Bluetooth link is restored. If the iPhone is removed during an active call, the sound is output on the telephone (private mode). When your iPhone is in the BMW Station, the sound is again output via the car's speakers.

Information on fuse assignment

The fuse for the BMW Station is located behind the radio.