

Original BMW Accessory Installation Instructions



Retrofit BMW Station

BMW X1 (E 84)

Installation only suitable for vehicles without on-board monitor.

84 21 2 219 219 BMW Station for Apple iPhone 4

Installation time The installation period is stipulated in vehicles:
E84 1.5 hours

For cars with SA 6FL the installation time increases by about 0.25 hours. These may, depending on the condition of the vehicle vary.

Installation time is specified in the time required for programming / coding is not taken into account. The allocation of the total cost for the programming time is the calculation of the Retrofit Kit. Please take into to (must not be a settlement over Warranty).

Important Notices

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

Target group for these installation instructions are on BMW vehicles, trained personnel with corresponding expertise.

All work must be done using the latest BMW repair manuals, Stromlaufplänen, Wartungshandbüchern and work instructions in a rational order using the prescribed tools (special tools) and with consideration of the applicable safety regulations. Restrict the event of installation or operation problems troubleshooting to 0.5 hours for mechanical and 1.0 hours for electrical work.

In order to avoid unnecessarily extra effort and to save costs, send promptly via the Aftersales Assistance Portal (ASAP), a request to the technical parts support.

Enter the following information:

- Chassis number,
- Part number of Retrofit,
- Description of the problem,
- Already performed steps.

Copy of these installation instructions should not be archived because of Updates!



Denotes instructions that draw your attention to dangers.



Denotes instructions that draw your attention to special features.

Note for the Customer

The chapter of "Consumer Information" is at the end of the installation.

While laying cables and / or lines to make sure that they are not bent or damaged. Resulting costs are not subject to any remuneration from BMW AG.

Additionally installed cables should be attached and / or pipelines must be fitted with Kabelbändern – cable insulation tape.

If the specified PIN chambers are occupied, attach a bridge, double crimps or Parallel velocity must be carried out.

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

After installation on vehicles without SA 640 (car phone preparation) coding and programming is required.

How to Order

The adapter plate is not part of the Apple Station. It is Vehicle specific and must be ordered separately (part number and see EPC).

List of special equipment

Please take into following special equipment must be fitted with:

SA 6FL USB-/Audio

SA 493 Storage package

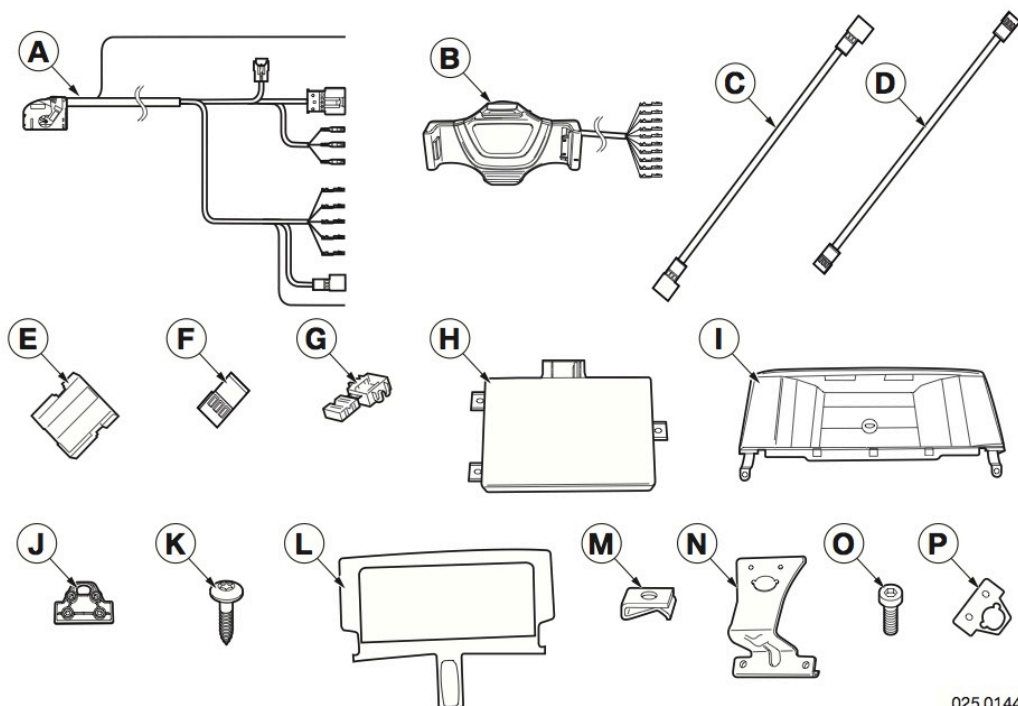
SA 640 car phone preparation

Required special tools:

00 9 317, mounting wedges

Preliminary Work	ISTA no.
Short Test	
Disconnect the negative battery	12 00...
The following components must be removed first	
Instrument shelf (not in E81/E82/E87/E88 without SA 493)	51 45 460
Radio Receiver	65 11 080
E84 Vehicles	
Pedal trim for Removing and installing	51 45 185
For vehicles equipped with SA 6FL	
Center armrest storage compartment	51 16 172
AUX port	31 134 61

Teileübersicht

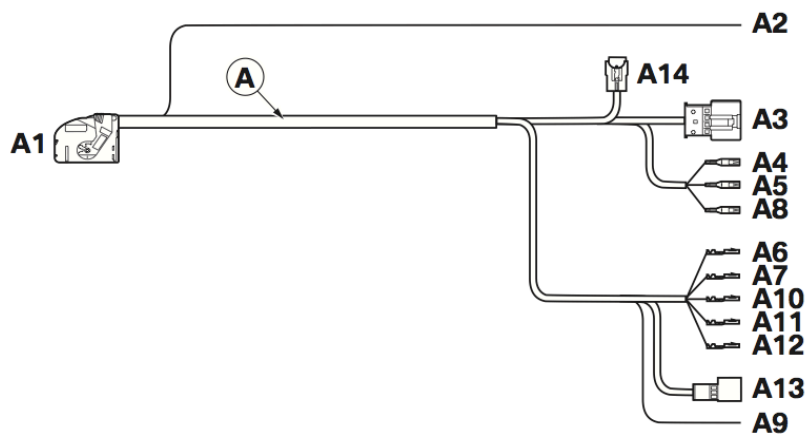


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Legend

- | | |
|---|---|
| A | Set of cables |
| B | BMW Station |
| C | Additional Cable |
| D | Auxiliary cable |
| E | Buchsengehäuse 4-pin. SW |
| F | Buchsengehäuse 3-pol. SW |
| G | Mini connector (2 pieces) |
| H | Control unit |
| I | Adapter shell (vehicle-specific, not part of Retrofit) |
| J | Mounting Plate |
| K | Torx screw (4 pcs) |
| L | Template (only for E81/E82/E87/E88 without SA 493, part of the tray) |
| M | Speed nut (2 pieces, only for E81/E82/E87/E88 without SA 493, part of the tray) |
| N | Base (only for E9x not part of the Retrofit) |
| O | Allen screw (2 pieces, only for E9x, part of the base N) |
| P | Plate (only for E9x, part of the base N) |

Connection overview - E84



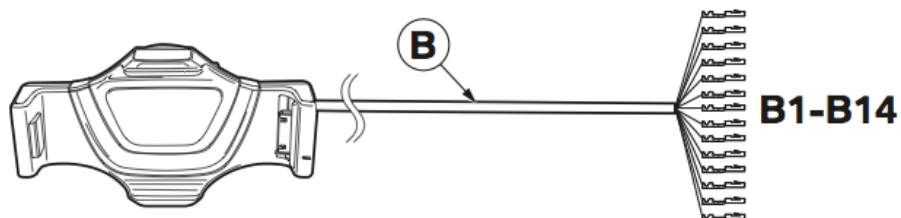
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BL	Blue
BO	Bordeaux (Maroon)
BR	Brown
D-GN	Dark Green
GE	Yellow
GN	Green
GR	Gray
L-BL	Light Blue
L-GN	Light green
NT	Natural
OR	Orange
PI	Pink
RO	Rose
RT	Red
SW	Black
TR	Transparent
VI	Violet
WAS	White

Position	Designation	Signal	Cable color	Connection location in vehicle	Slot Number
A	Cable set				
A1	Buchsengehäuse 32-pin. SW			Control unit at the G	X9304
A2	Line open	Kl. 15	RT / GR 0.35 mm2	Miniconnector cable with F at the CAS GN-control unit	X13376 PIN 8
A3	Stiftgehäuse 4-pin. SW			From Buchsengehäuse to the radio plug	X8523
A4	Socket contact	Kl. 30	RT 1.5 mm2	On the radio plug	X13812 PIN 15
A5	Socket contact	Kl. 31	BR 1,5 mm2	On the radio plug	X13812 PIN 12
A6	Socket contact	NF+	BL / SW 0.35	Only vehicles with multi-	X13813

			mm2	radio plug On the radio plug Only vehicles with one piece radio plug On the radio plug	PIN 6 X13813 PIN 34
A7	Socket contact	NF-	BL / BR 0.35 mm2	Only vehicles with multi-radio plug On the radio plug Only vehicles with one piece radio plug On the radio plug	X13813 PIN 12 X13812 PIN 40
A8	Socket contact	Mute	WS / BR 0.35 mm2	On the radio plug	X13812 PIN 10
A9	Line open	Active Call	BL 0.35 mm2	Isolate and tie back	
A10	Socket contact	AUX R +	WAS 0.35 mm2	Cars without SA 6FL and multi piece connector On the radio plug Cars without SA 6FL and one-piece radio plug On the radio plug Cars with SA 6FL With Buchsengehäuse branch C1 to F	X13813 PIN 7 X13812 PIN 35 PIN 2
A11	Socket contact	AUX L +	BR / WS 0.35 mm2	Cars without SA 6FL and multi piece connector On the radio plug Cars without SA 6FL and one piece radio plug On the radio plug Cars with SA 6FL With Buchsengehäuse branch C1 to F	X13813 PIN 2 X13812 PIN 30 PIN 1
A12	Socket contact	AUX GND	Umbrella 0.35 mm2	Cars without SA 6FL and multi audio-piece connector On the radio plug Cars without SA 6FL and one piece radio plug On the radio plug Cars with SA 6FL With Buchsengehäuse branch C1 to F	X13813 PIN 8 X13812 PIN 36 PIN 3
A13	Stiftgehäuse 3-pol. SW			Cars without SA 6FL At Buchsengehäuse F Cars with SA 6FL To branch D1	
A14	5 A fuse				
A15	Socket contact		GE 0.35 mm2	If present, isolate and tie back	
A16	Socket contact		SW 0.35 mm2	If present, isolate and tie back	

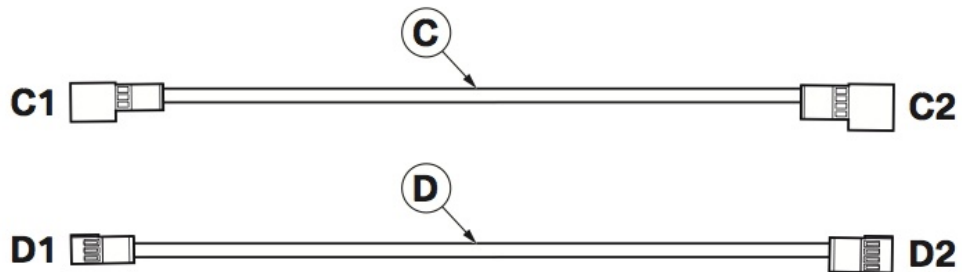
Anschlussübersicht BMW station (all vehicles)



BL	Blue
BO	Bordeaux (Maroon)
BR	Brown
D-GN	Dark Green
GE	Yellow
GN	Green
GR	Gray
L-BL	Light Blue
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NT	Natural
OR	Orange
PI	Pink
RO	Rose
RT	Red
SW	Black
TR	Transparent
VI	Violet
WAS	White

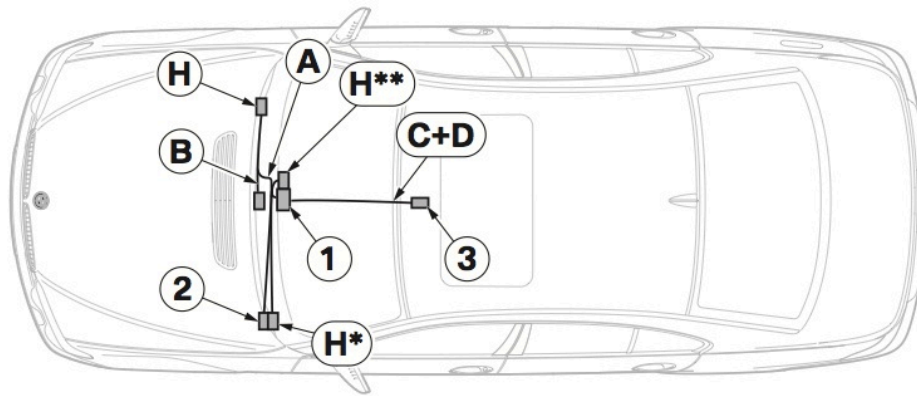
Position	Designation	Signal	Cable color	Connection location in vehicle	Slot Number
B	BMW Station			In branch A1	
B1	Socket contact	U-CH	VI 0.25 mm2	In branch A1	X9304 PIN 18
B2	Socket contact	U-CH	RT 0.25 mm2	In branch A1	X9304 PIN 19
B3	Socket contact	GND	BL 0.25 mm2	In branch A1	X9304 PIN 1
B4	Socket contact	GND	SW 0.25 mm2	In branch A1	X9304 PIN 2
B5	Socket contact	5V0	BR 0.25 mm2	In branch A1	X9304 PIN 3
B6	Socket contact	BT-RXD	GR 0.16 mm2	In branch A1	X9304 PIN 5
B7	Socket contact	BT-TXD	L-GN 0.16 mm2	In branch A1	X9304 PIN 6
B8	Socket contact	BC-WDG	L-BL 0.16 mm2	In branch A1	X9304 PIN 7
B9	Socket contact	BC5-Reset	OR 0.16 mm2	In branch A1	X9304 PIN 8
B10	Socket contact	Audio L +	WAS 0.16 mm2	In branch A1	X9304 PIN 32
B11	Socket contact	Audio R +	GE 0.16 mm2	In branch A1	X9304 PIN 16
B12	Socket contact	Audio GND	Umbrella 0.16 mm2	In branch A1	X9304 PIN 15
B13	Socket contact	Mic +	PI 0.16 mm2	In branch A1	X9304 PIN 26
B14	Socket contact	Mic	D-GN 0.16 mm2	In branch A1	X9304 PIN 27

Anschlussübersicht additional cable (cars with SA 6FL)



Position	Designation	Signal	Cable color	Connection location in vehicle	Slot Number
C	Additional cable			Cars with SA 6FL	
C1	Stiftgehäuse 3-pol. SW			Buchsengehäuse with F branches at A10-A12	
C2	Stiftgehäuse 4-pin. SW			Only vehicles with 4 pin. Connector to the AUX jack Plug pulled off on the AUX port Only vehicles with 6-pin. Connector to the AUX jack Ausgepinnte cable connector to the AUX port	
D	Additional cable			Cars with SA 6FL	
D1	Buchsengehäuse 3-pol. SW			A13 at junction	
D2	Buchsengehäuse 4-pin. SW			An auxiliary jack	

Installation and cabling diagram – E84



- A Set of cables
- B BMW Station
- C Additional Cable
- D Auxiliary cable
- H * Control unit (only E84 vehicles)

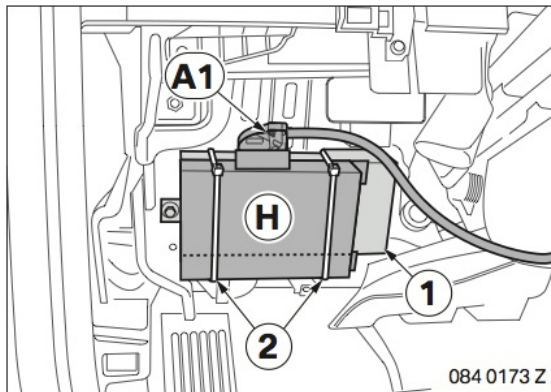
- 1 Radio plug **X13812/X13813**
- 2 CAS control unit **X13376**
- 3 AUX jack

Wiring and Control Unit installation - E84

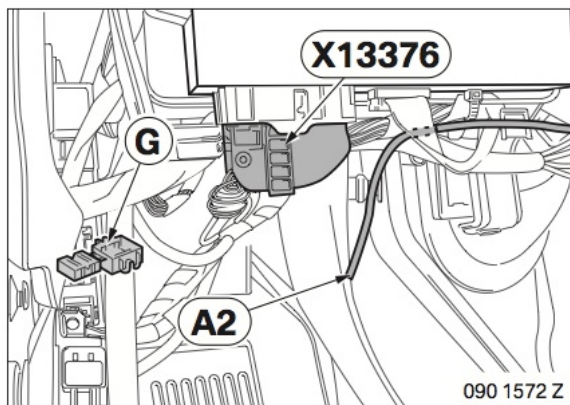
E84 cars only

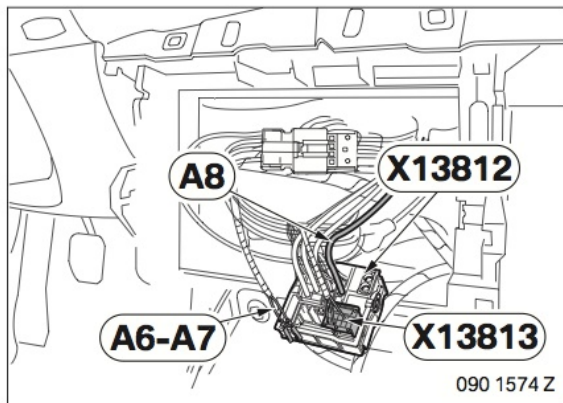
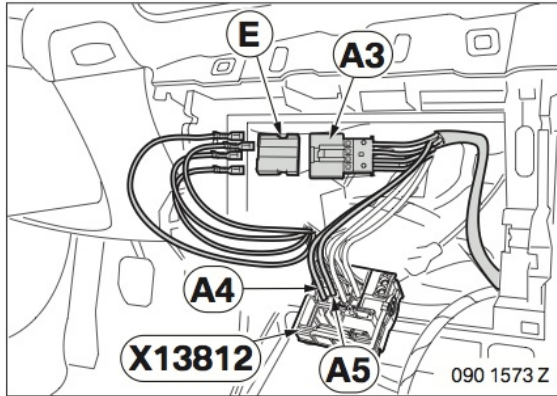
Branch A1 to infect H control unit.

H control unit with cable ties (2) on CAS-control unit (1) fix.



All vehicles:





Branch A2, RT cable / GN, connect using a miniature connector G to 8 PIN, GN cable, the plug X13376 on CAS control unit.

Cable (1) as follows from radio plug X13812 and auspinnen einpinnen in Buchsengehäuse E:

- Cable, Cable RT / GN from PIN 15 to PIN 3 Buchsengehäuse E
- Cable, BR cable from PIN 12 to PIN 2 Buchsengehäuse E

Branches A4 and A5 as follows einpinnen in radio plug X13812:

- Branch A4, RT cable, to PIN 15
- Branch A5, brown cable, plug it in A3 at junction 12 PIN Buchsengehäuse E.

Branch A8, WS / BR, einpinnen radio plug X13812 in PIN 10th

Only vehicles with multi-branch radio connector A6, Cable BL / SW, in Radio plug X13813, PIN 6 einpinnen.

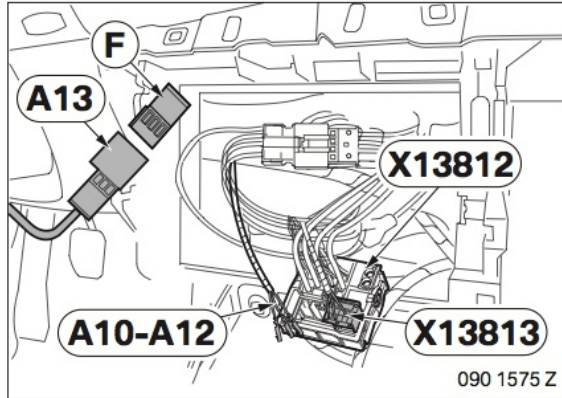
Branch A7, Cable BL / BR, in the radio plug X13813, PIN 12 einpinnen.

Only vehicles with one-piece radio plug branch A6, Cable BL / SW, in

Radio plug X13812, PIN 34 einpinnen.

Branch A7, Cable BL / BR, in the radio plug X13812, PIN 40 einpinnen.

Cars without SA 6FL multi pieced and radio plug



Cable from the radio plug X13813 as follows auspinnen and einpinnen in Buchsengehäuse Q:

- Cable, WS / BL or SW from PIN 2 PIN 3 in F Buchsengehäuse
- Cable, WS / BR or GE, from pin 7 to pin 2 Buchsengehäuse F
- Cable, WS / RT or shield from pin 8 to pin 1 Buchsengehäuse F

F Buchsengehäuse infect the A13 junction. Branch A10, WS, in radio plug X13813, PIN 7 einpinnen.

A11 junction, cable BR / WS, in Radio plug X13813, PIN 2 einpinnen.

A12 junction, screen, on radio plug X13813, PIN 8, einpinnen.

Cars without SA 6FL and radio plug

Cable from the radio plug X13812 as follows auspinnen and einpinnen in Buchsengehäuse Q:

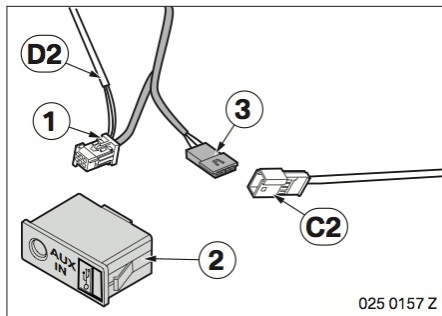
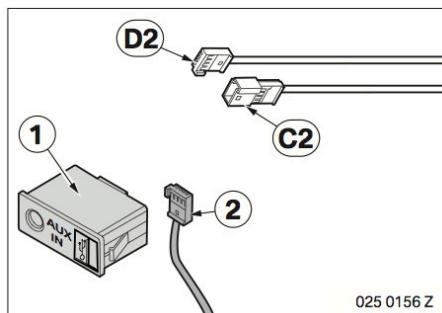
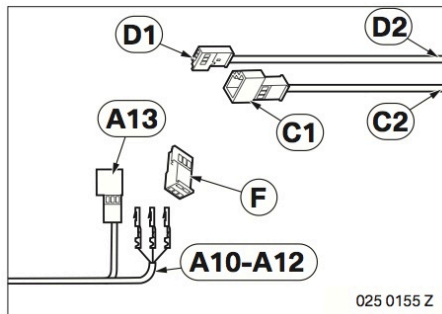
- Cable, WS / BL or SW from PIN 30 to PIN 3 Buchsengehäuse F
- Cable, WS / BR or GE from PIN 35 to PIN 2 Buchsengehäuse F
- Cable, WS / RT or shield from PIN 36 to PIN 1 Buchsengehäuse F

F Buchsengehäuse infect the A13 junction. Branch A10, WS, in radio plug X13812, PIN 35 einpinnen.

A11 junction, cable BR / WS, in Radio plug X13812, PIN 30 einpinnen.

A12 junction, screen, on radio plug X13812, PIN 36 einpinnen.

Install and connect additional cable (cars with SA 6FL)



Connect branches A10-A12 as follows in one Buchsengehäuse F-pinning:

- Branch A10, white cable, to PIN 1
- Branch A11, cable BR / WS, pin 2
- Branch A12, umbrella, at PIN 3

Buchsengehäuse F at the junction of the C1 C infect additional cable.

Branch A13, 3-pin Stiftgehäuse. SW, at the junction of D1 D infect additional cable.

Branches C2 and D2 AUX jack move.

Only vehicles with 4-pin. Connector to the AUX jack

If pin 1 of the AUX-in connector (2) a cable eingepinnt be auspinnen and cable to PIN 1 of the junction D2.

AUX connector (2) from AUX jack (1) unplug and plug it into the branch C2.

Infected branch D2 to AUX jack (1).

Only vehicles with 6-pin. Connector to the AUX jack

Cables from branch D2 auspinnen (Buchsengehäuse 4-pin. SW (3) is still needed).

AUX connector (1), 6-pin Buchsengehäuse. SW, disconnect from the AUX jack (2).

Cable from PIN 1, 3 and 4 AUX plug (1) as follows Buchsengehäuse auspinnen and 4-pin. SW einpinnen (3):

- Cable WS / RT from one PIN to PIN 4

- Kabel VLaus PIN3 in PIN2

- Cable WS / GN from pin 4 to pin 3

Buchsengehäuse (3) on branch C2 infected.

Ausgepinnte cable branch D2 as follows AUX plug (1) einpinnen:

- Kabel WS aus PIN2 in PIN3

- Kabel SW aus PIN3 in PIN4

- Kabel GE aus PIN4 in PIN1

AUX connector (1) to the AUX jack (2) infected.

Concluding work and coding

The retrofit is for vehicles without SA 640 code.

Connect the battery

Cars without SA 640

Test vehicle system through ISTA and look for registered memory error.

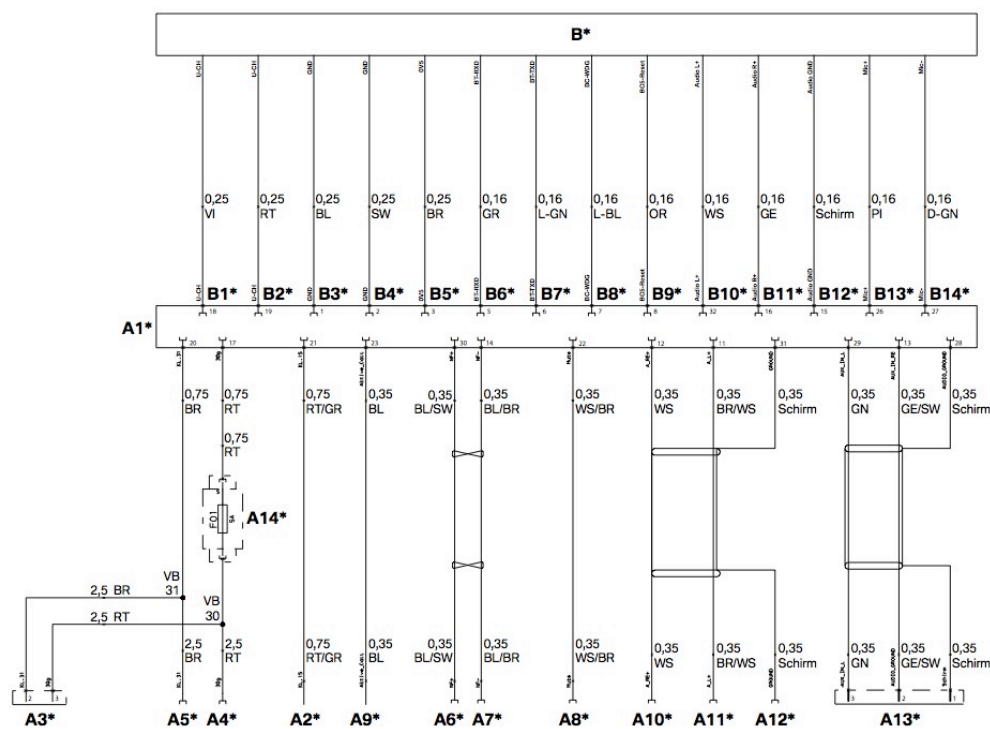
- Change vehicle programming ISTA / P
- F25 Retrofit must be encoded using the "Portable Navigation System".
- - For work with ISTA / P, please follow the instructions in the ISTA / P Application Documentation
-

All vehicles

- Quick test
- Reassemble vehicle components

Circuit diagram (all vehicles)

Legend



A1 Buchsengehäuse 32-pin. SW, on control unit H

A2 E81/E82/E84/E87/E88/E89/E90/E91/E92/E93: open line, with a mini connector on pin 8 of the control unit connector X1337 of the CAS

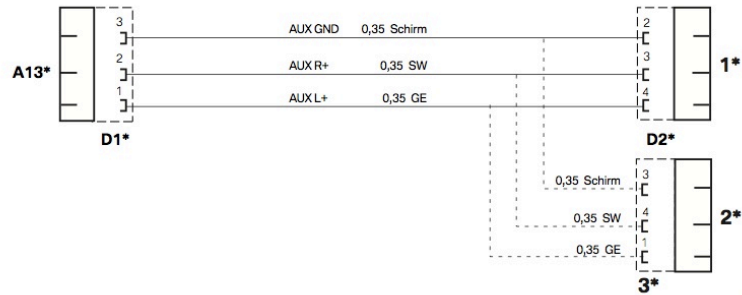
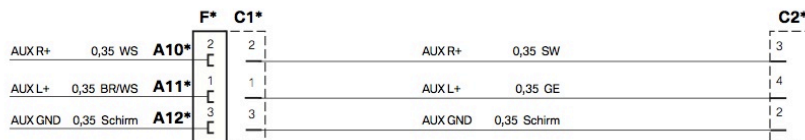
A3 Stiftgehäuse 4-pin. SW at Buchsengehäuse E *

A4 socket contact, to PIN 15 of the radio connector X13646/X13812/A42 * 1B

A5 socket contact, to PIN 12 of the radio connector X13646/X13812/A42 * 1B

A6 female contact, pin 6 in the multipart radio connector X13813/X13649 or to PIN34 of the one-piece radio connector X13646/X13812/X42 * 1B

- A7 socket contact, to PIN 12 of the multipart radio
connector X13813/X13649 or to PIN 40 of the one-piece radio
connector X13646/X13812/X42 * 1B
- A8 socket contact, to PIN 10 of the radio
connector X13646/X13812/A42 * 1B
- A9 is not needed
- A10 Vehicles with SA 6FL:
Female contact, pin 7 in the multipart radio
connector X13813/X13649 or to PIN 35 of the one-piece radio
connector X13646/X13812/X42 * 1B
Vehicles without SA 6FL:
Socket contact with Buchsengehäuse branch C1 to F * *
- A11 Vehicles with SA 6FL:
Socket contact, to PIN 2 of the multipart radio
connector X13813/X13649 or to PIN30 of the one-piece radio
connector X13646/X13812/X42 * 1B
Vehicles without SA 6FL:
Socket contact with Buchsengehäuse branch C1 to F * *
- A12 -
Vehicles with SA 6FL:
Vehicles without SA 6FL:
Socket contact, to PIN 8 of the multipart radio
connector X13813/X13649 or to PIN36 of the one-piece radio
connector X13646/X13812/X42 * 1B
Socket contact with Buchsengehäuse F * C1
* Branch on vehicles without SA 6FL:
- A13 Vehicles with SA 6FL:
Stiftgehäuse 3-pol. SW at Buchsengehäuse Stiftgehäuse F * 3-
pin. SW branch of D1 *
- A14 5 A fuse



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- C1 * Stiftgehäuse 3-pin. SW, with Buchsengehäuse F * A10 * at the feeders - A12 * Stiftgehäuse
- C2 * 4-pin. SW, plug the AUX jack with 4-pin. Port or the AUX jackausgepinnte lines with 6-pin. connection
- D1 * Buchsengehäuse 3-pin. SW, at the junction A13 *
- D2 * Buchsengehäuse 4-pin. SW, AUX-in jack 1 * (with 4-pin. Connector)
- 3 * 6-pin Buchsengehäuse. SW, (6-pin with.) Port on AUX port 2 *