



R	H F	A	
BM 1		(E81, E82, E87, E88)	3/09
BM 3		(E90, E91, E92, E93)	3/09
BM 1		(E84)	

I H F

R	N .:	
	65 41 2 163 268	Retrofit kit - HiFi System Alpine
	65 41 2 167 061	Retrofit kit - HiFi System Alpine

The installation time is **2.0**. The installation time increases by **0.25** on vehicles with option SA 662 built after 9/09. The specified time may vary depending on the vehicle's condition and equipment.

The total costs for the programming time should be taken into account when calculating retrofitting costs (reimbursement through warranty is not permissible).

The installation time does not include the time required for programming/encoding which depends on the vehicle's age and equipment.

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

The target group of these installation instructions are technical personnel trained on BMW vehicles with corresponding technical know-how.

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


I , 0.5 1.0

To avoid unnecessary work and costs, send a corresponding enquiry via the Aftersales Assistance Portal (ASAP) using the technical parts support application.

Please quote the following:

- Vehicle identification number
- Part number of retrofit kit
- Exact description of the problem
- Work already carried out

Do not archive the hard copy of these installation instructions since daily updates are made by ASAP!

P
 Denotes information that draws attention to specific requirements.

◀ Denotes the end of an instruction text.

C

The "Customer Information on the HiFi System Alpine" at the end of the installation instructions should be printed out and handed over to the customer.

I

Ensure that the cables/lines are not kinked or damaged as you install them in the car. Costs incurred as a result of incorrect installation will not be reimbursed by BMW AG.

Additional cables and/or 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.

Only these installation instructions should be used for troubleshooting purposes. The information shown on the amplifier **C** does not correspond to the connection in the vehicle.

Vehicles equipped with option SA 662 do not require encoding.

O

The corner trim covers on the mirror triangle **I, J** or the covers on the window frame **K, L** are not included in the retrofit kit and must be ordered separately (see EPC for part number and details).

The connecting cable for central bass, right **M**, the central bass **N** and hexagon nuts **O** are additionally required for vehicles with option SA 662 built after 9/09. They are not included in the retrofit kit and must be ordered separately (see EPC for part number and details).

L

The following optional extras must be taken into account when installing the retrofit kit:

- A 606** Navigation system Business
- A 609** Navigation system Professional
- A 662** Radio BMW Business CD
- A 663** Radio BMW Professional

00 9 310, Mounting wedge

00 9 317, Panel wedge

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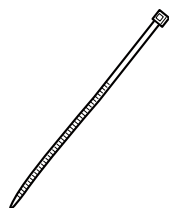
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1. P

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○



L

- A** Retrofit wiring loom
- B** Diplexer (2x)
- C** Amplifier
- D** Mid-range speaker (2x)
- E** Tweeter (2x)
- F** Badge (2x)
- G** 2-pin BL pin housing (only for vehicles with option SA 662 built after 9/09)
- H** Cable tie (15x)
- I** Corner trim cover on mirror triangle, left (only for E82, E88, E92, E93 vehicles, not included in retrofit kit)
- J** Corner trim cover on mirror triangle, right (only for E82, E88, E92, E93 vehicles, not included in retrofit kit)
- K** Cover for window frame, left (only for E81, E87, E90, E91 vehicles, not included in retrofit kit)
- L** Cover for window frame, right (only for E81, E87, E90, E91 vehicles, not included in retrofit kit)
- M** Connecting cable for central bass, right (not included in retrofit kit, only for vehicles with option SA 662 built after 9/09)
- N** Central bass, right (not included in retrofit kit, only for vehicles with option SA 662 built after 9/09)
- O** Hexagon nut (2x, not included in retrofit kit, only for vehicles with option SA 662 built after 9/09)

2. P

I A N .

Perform quick test	---
Disconnect negative terminal of battery	61 20 900

R

Sill cover panel, front (inner), left and right	51 47 000
Sill cover panel, rear (inner) left and right (only E87, E90, E91 vehicles)	51 47 030
Rear seat	52 26 005
Luggage compartment floor trim panel	51 47 101
Door trim panel, front left and right	51 41 000

A E81, E87, E90, E91, E92

Side section of rear seat backrest, left and right	52 26 008
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A E81, E87, E90, E91

Cover on door window frame, inner left and right	51 32 160
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A E82, E88, E92, E93

Inner trim cover on mirror triangle, left and right	51 16 000
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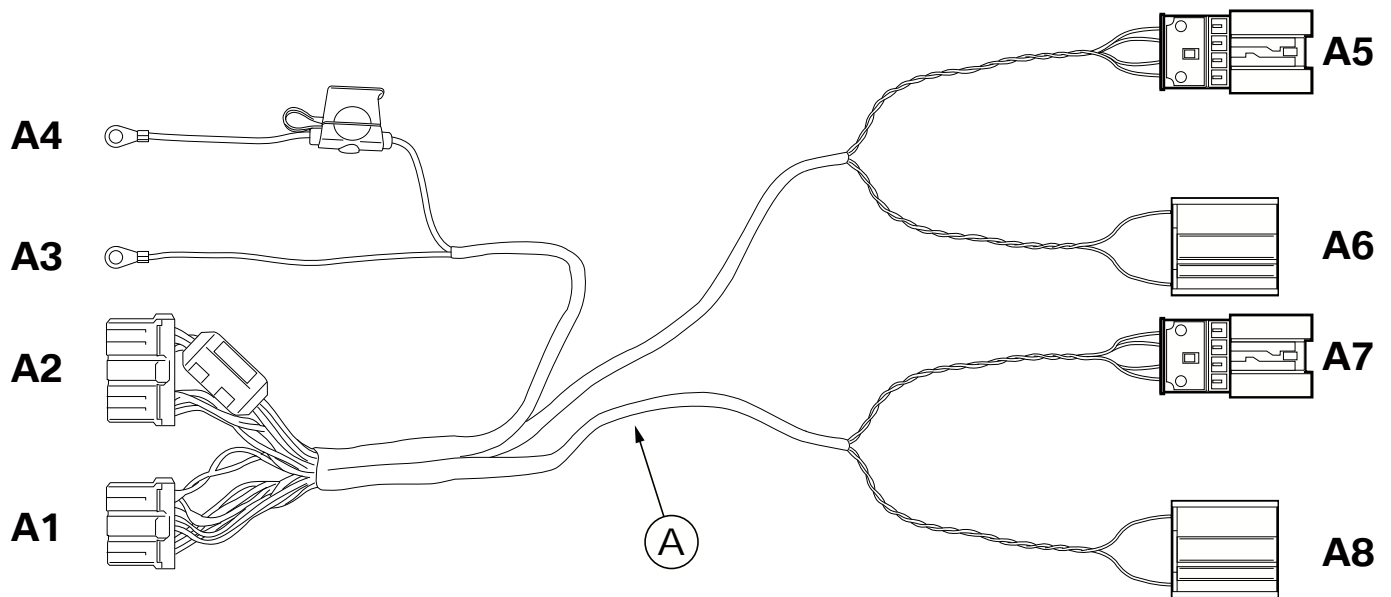
A 3/09

Loosen front seats	52 13 000
Remove central bass cover	65 12 050

A A 662 9/09

Open door disconnecter, right	---
Door pillar trim panel, bottom right	51 43 150

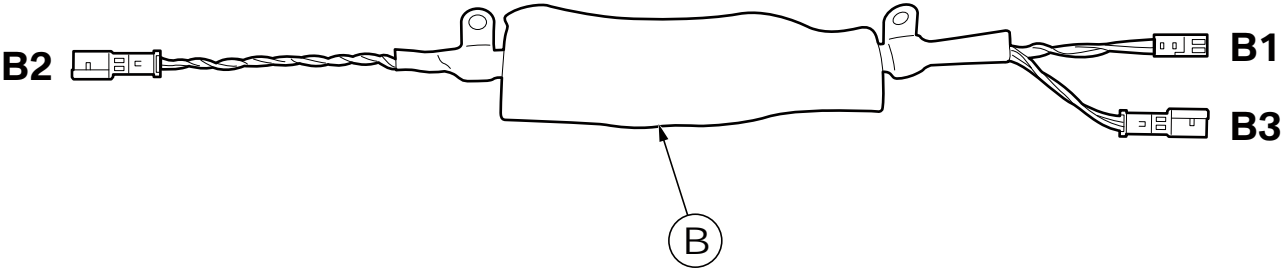
3. C



090 1507 Z

B P	/	D		C	/	P	-	D	-	/
A		Retrofit wiring loom	---	---		---		---		
A1		10-pin WS socket housing	---	---		At amplifier C		---		
A2		14-pin WS socket housing	---	---		At amplifier C		---		
A3		Eyelet	Kl. 31	BR 4.0 mm ²		At ground terminal on right in luggage compartment		X498		
A4		Eyelet	Kl. 30	RT 4.0 mm ²		O E81, E82, E87, E88, E84 At positive pin of battery terminal in luggage compartment well O E90, E91, E92, E93 At positive pin of rear fuse box		X10209		
A5		4-pin SW pin housing	---	---		O 9/09 A 662 9/09 At vehicle-side connector of central bass, right O 9/09 A 662 At branch M1		X10373		---
A6		SW 4-pin socket housing	---	---		At central bass, right		X10373		
A7		4-pin SW pin housing	---	---		At vehicle-side connector of central bass, left		X10372		
A8		SW 4-pin socket housing	---	---		At central bass, left		X10372		

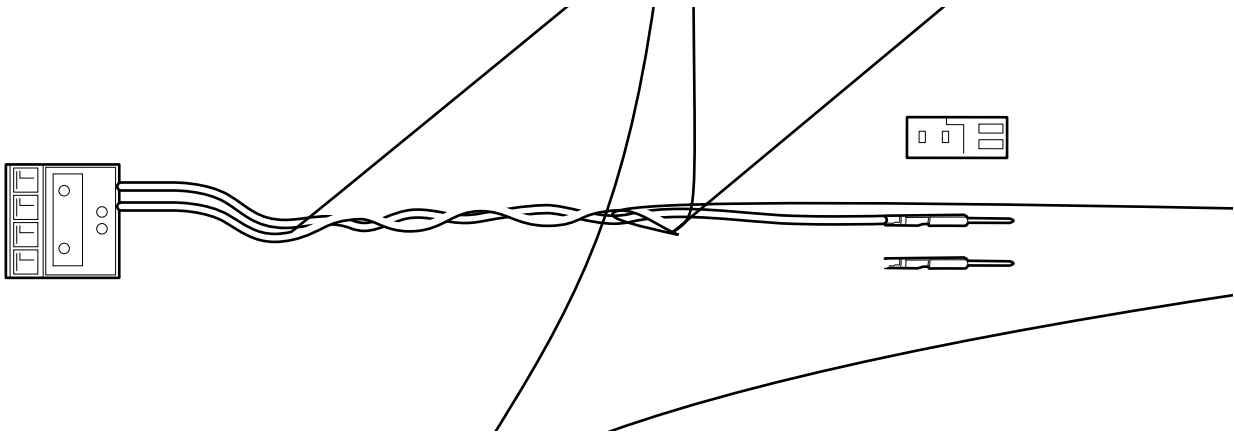
4. C ,



090 1508 Z

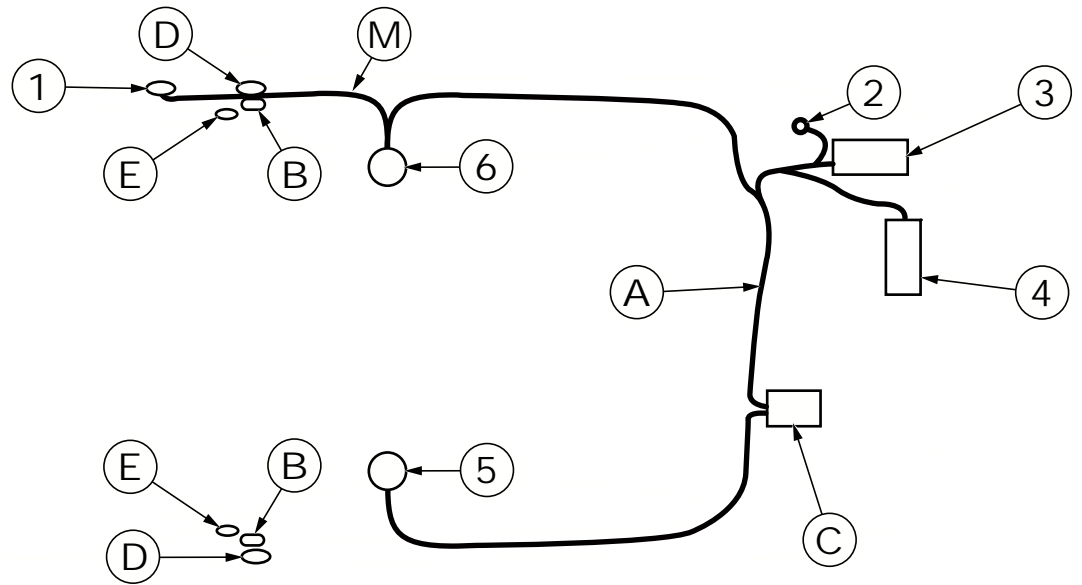
B P	/	D		C	/	P	-	D	-	/
B		Diplexer	---	---		---		---		
B1		BL 2-pin socket housing	---	---		At mid-range speaker	D	---		
B2		2-pin BL pin housing	---	---		At tweeter	E	---		
B3		2-pin BL pin housing	---	---		At original socket housing to door speaker		---		

O A 662 9/09



B P	/	D		C	/	P	-	D	-	/
M		Connecting cable for central bass, right	---	---		---		---		
M1		SW 4-pin socket housing	---	---		At branch	A5	X10373		
M2		BL 2-pin socket housing	---	---		At pin housing	G	---		
M3		Pin contact	NF+	BL/BR 0.5 mm ²		At door disconnecter, right		X256 PIN 33		
M4		Pin contact	NF-	BL/SW 0.5 mm ²		At door disconnecter, right		X256 PIN 34		

5. I



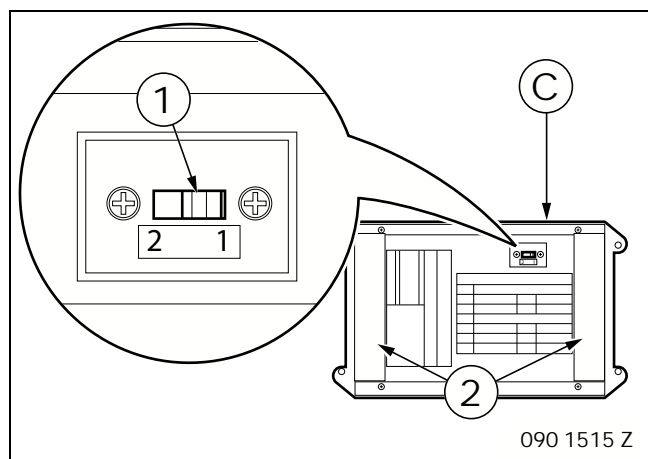
090 1514 Z

L

- A** Retrofit wiring loom
- B** Diplexer
- C** Amplifier
- D** Mid-range speaker
- E** Tweeter
- M** Connecting cable for central bass, right (only vehicles with option SA 662 built after 9/09)

- 1** Door disconnect, right **256**
- 2** Ground terminal point **498**
- 3** Battery (only E90, E91, E92, E93 vehicles)
- 4** Battery (only E81, E82, E87, E88, E84 vehicles)
- 5** Central bass, left, connector **10372**
- 6** Central bass, right, connector **10373**

6. I



Before installing amplifier **C** set switch (1) to position 1.
Remove protective film from adhesive strips (2).

Do not install retrofit wiring loom **A** close to amplifier **C**. ◀

Adhere amplifier **C** in luggage compartment well (1).

Connect branches **A1** and **A2** to amplifier **C**.

Route branches **A3** and **A4** to the battery.

Route branches **A5** and **A6** to the right-hand side of the vehicle.

Run branches **A7** and **A8** to the left-hand side of the vehicle.

Install wiring harness as illustrated. ◀

Route branches **A7** and **A8** under driver's seat.

Install wiring harness as illustrated. ◀

Route branches **A5** and **A6** under passenger's seat.

Route branch **A3** to ground terminal **498**.

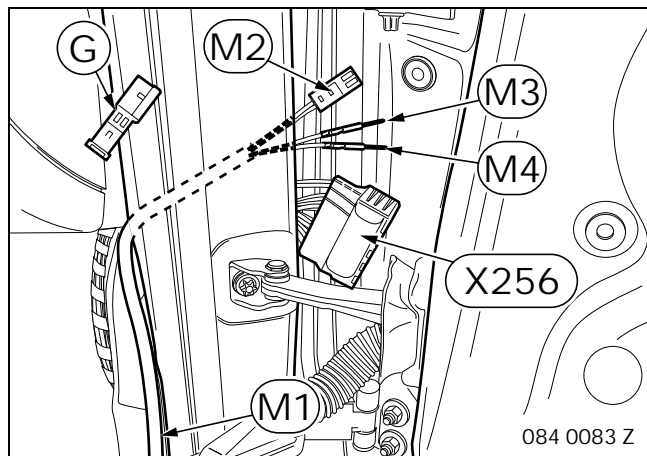
O E81, E82, E87, E88, E84

Route branch **A4** to positive pin of battery terminal (1).

O E90, E91, E92, E93

Route branch **A4** to rear fuse box (2).

6. I



O A 662 9/09
Unplug lines from door disconnect **256** and plug in at pin housing **G** as follows:

- BL/BR wire from PIN 33 at PIN 1
- BL/SW wire from PIN 34 at PIN 2

Plug in branches **M3** and **M4** at connector **256** as follows:

- Branch **M3**, BL/BR wire, at PIN 33
- Branch **M4**, BL/SW wire, at PIN 34

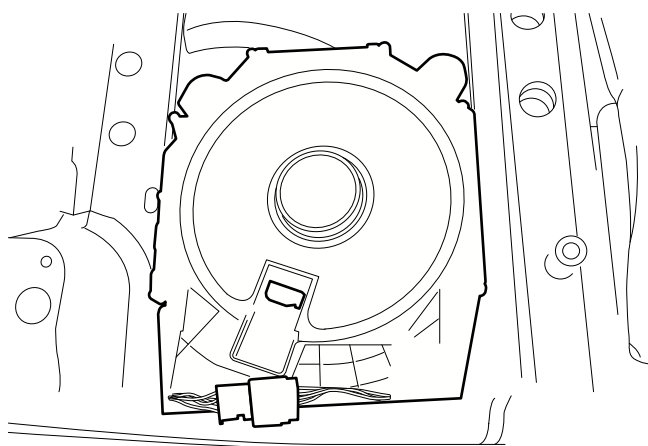
Plug in branch **M2** at pin housing **G**.

Route branch **M1** under passenger's seat.

Install central bass **N** with hexagon nuts **O** as described in ISTA No. 65 12 050.

Connect branch **M1** to branch **A5**.

Connect branch **A6** to central bass **N**.



O A 662 9/09

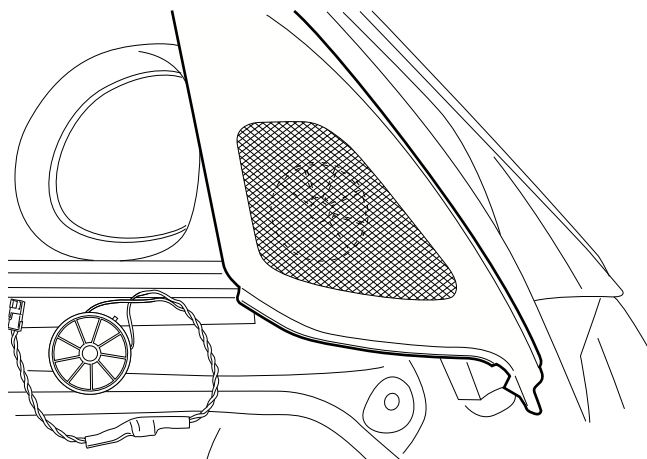
Unplug connector **10372** from central bass, left (1) and connect to branch **A7**.

Connect branch **A8** to central bass (1).

Unplug connector **10373** from central bass, left (1) and connect to branch **A5**.

Connect branch **A6** to central bass (1).

6. I



A

If necessary, fit corner trim cover on mirror triangle **I** or cover on window frame **K**. ◀

Replace tweeter in mirror triangle (1) by tweeter **E** (see ISTA-RA 65 13 050).

Attach badge **F** to speaker grille (2) and adhere.

Follow the same procedure on the right-hand side.

A E81, E82, E87, E88, E84

Replace original speaker in door trim panel (1) by mid-range speaker **D**, see ISTA-RA 65 13 070.

Secure diplexer **B** to mid-range speaker **D** with nuts (2).

Connect branch **B1** to mid-range speaker **D**.

Connect branch **B2** to tweeter **E**.

Connect branch **B3** to original socket housing for door speaker.

A E90, E91, E92, E93

Replace original speaker in door trim panel (1) by mid-range speaker **D**, see ISTA-RA 65 13 070.

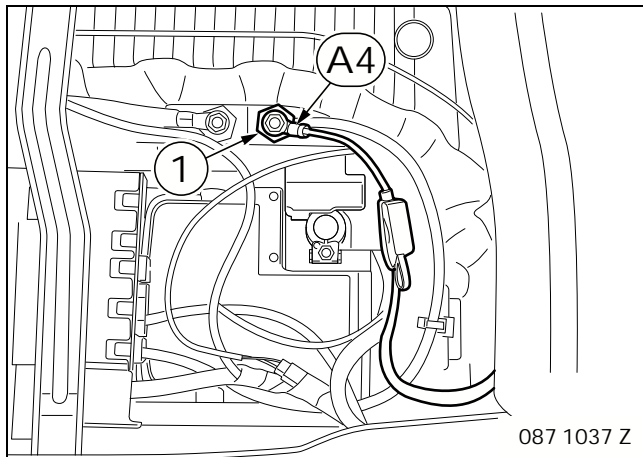
Secure diplexer **B** to mid-range speaker **D** with screws (2).

Connect branch **B1** to mid-range speaker **D**.

Connect branch **B2** to tweeter **E**.

- Connect branch **B3** to original socket housing for door speaker.

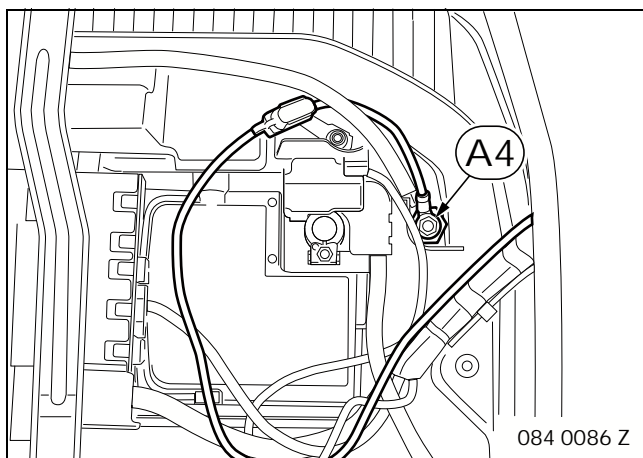
6. I



O E81, E82, E87, E88

Screw down branch **A4** at positive pin at battery terminal in luggage compartment well (1).

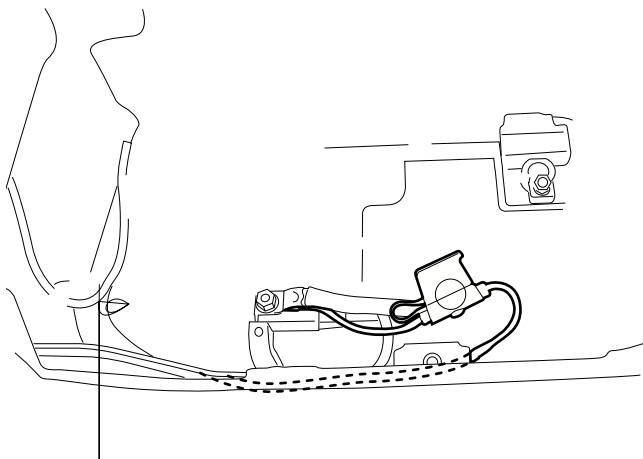
.



O E84

Screw down branch **A4** at positive pin at battery terminal in luggage compartment well (1).

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O E90, E91, E92, E93

Screw down branch **A4** at terminal **10209** on rear fuse box (1).

A

Screw down branch **A3** at ground terminal **498** on right-hand wheel arch.

7. F



Vehicles equipped with option SA 662 do not require encoding.

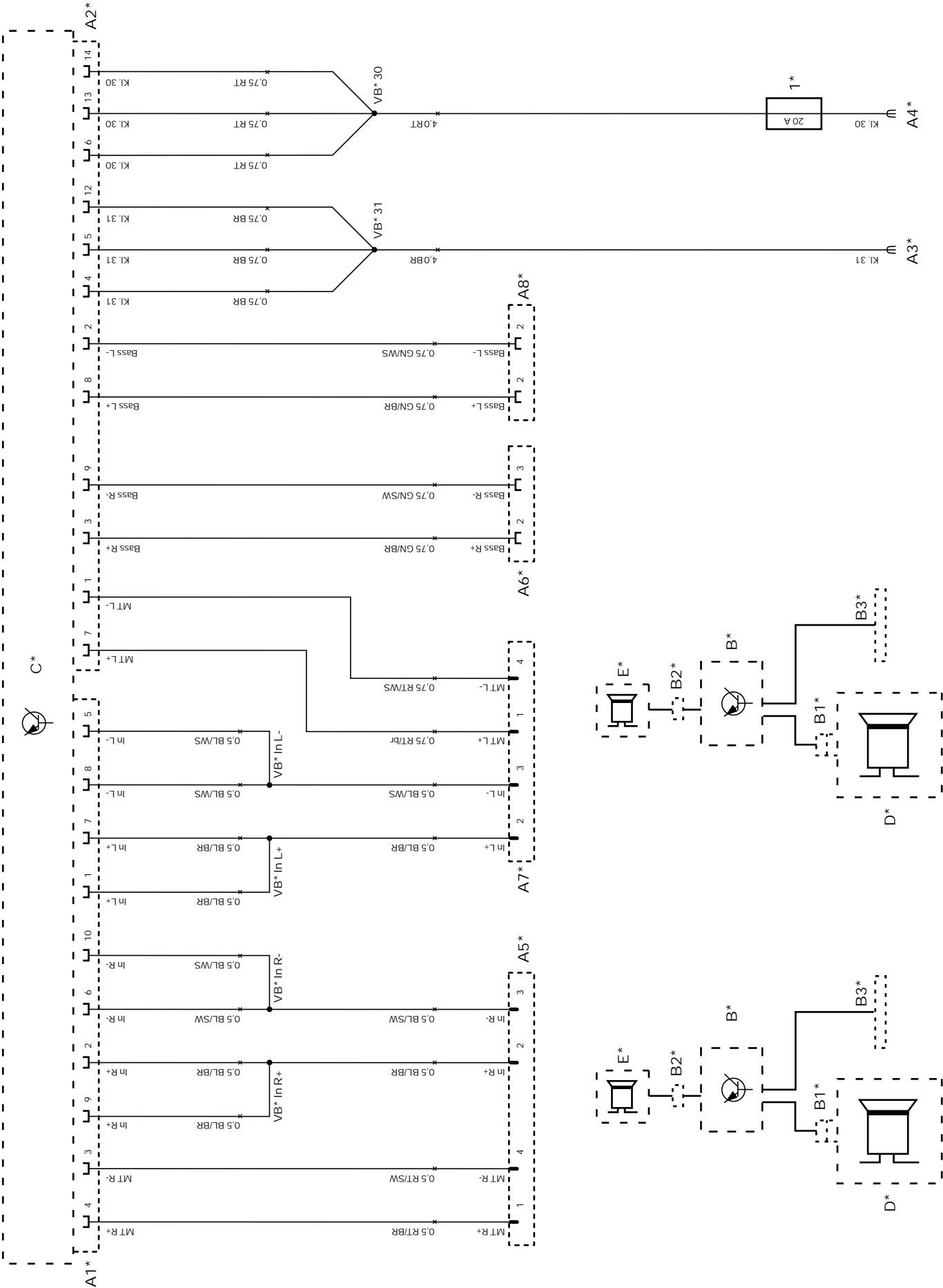
The retrofit system requires encoding.

- Reconnect vehicle battery
- Test vehicle using ISTA system and pay attention to fault codes entered in the memories and work through as required
- Go to ISTA/P vehicle programming
- Select "HiFi System Alpine" via the – **C** – path and work through action plan
- Please refer to the information provided in the ISTA/P application documentation when working with ISTA/P
- Reassemble vehicle in reverse order of removal

C

The "Customer Information on the HiFi System Alpine" at the end of the installation instructions should be printed out and handed over to the customer.

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L

- A1* 10-pin WS pin housing
- A2* 14-pin WS pin housing
- A3* Eyelet M6, connection point terminal 31 at ground terminal point 498
- A4* Eyelet M8, connection point terminal 30
- A5* 4-pin SW pin housing, at vehicle-side connector 10373 of central bass, right
- A6* SW 4-pin socket housing at central bass, right
- A7* 4-pin SW pin housing, at vehicle-side connector 10372 of central bass, left
- A8* SW 4-pin socket housing at central bass, left

B* Diplexer

- B1* At mid-range speaker D
- B2* At tweeter E
- B3* At original socket housing of speaker

C* Amplifier

D* Mid-range speaker

E* Tweeter

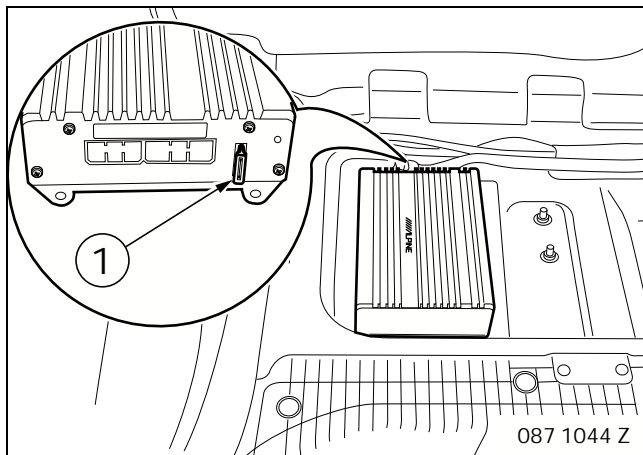
1* Fuse holder (20 amp)

All designations marked * only apply to these installation instructions or this circuit diagram.

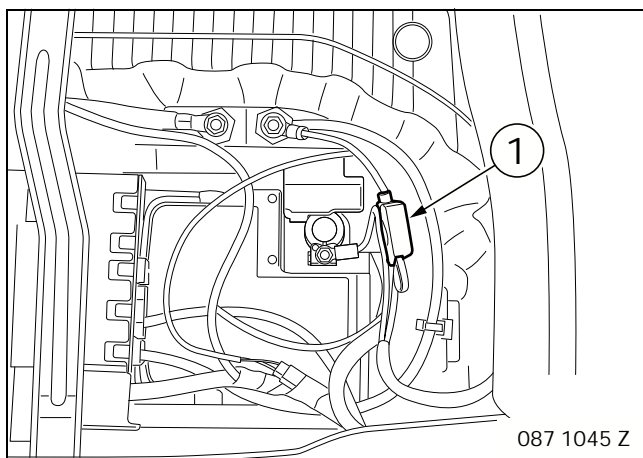
C

BL	Blue	RT	Red
BR	Brown	SW	Black
GN	Green	WS	White

In the event of the system failing, check the power supply as follows:

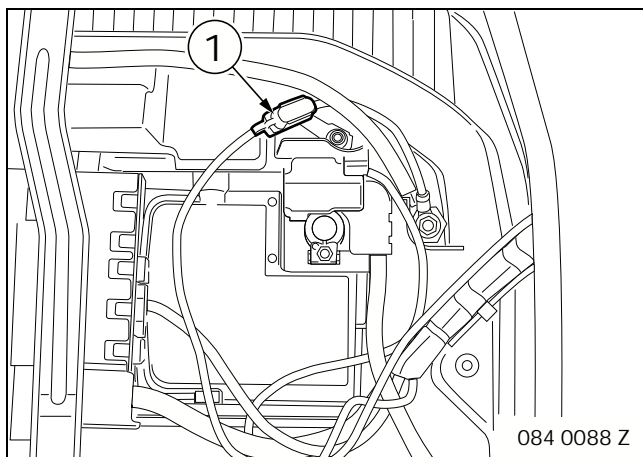


- Remove floor panel in luggage compartment
- Check fuse (1) at the amplifier
- If necessary, replace by a new 20 amp fuse



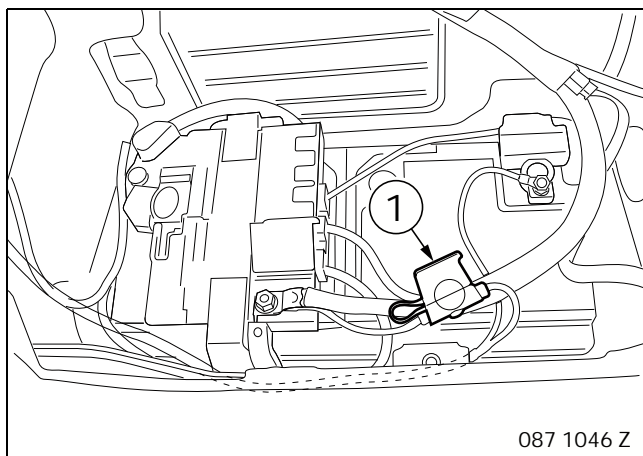
O 1

- Remove floor panel in luggage compartment
- Check fuse in fuse holder (1)
- If necessary, replace by a new 20 amp fuse



O 1

- Remove floor panel in luggage compartment
- Check fuse in fuse holder (1)
- If necessary, replace by a new 20 amp fuse



O 3

- Remove flap on right in luggage compartment trim panel
- Check fuse in fuse holder (1)
- If necessary, replace by a new 20 amp fuse