Original BMW Accessories.
Installation Instructions.

iPod Interface Retrofit
BMW 3 Series Saloon (E90)
BMW 3 Series Touring (E91)
BMW 3 Series Coupé (E92)

These installation instructions are only valid for cars with SA 663 (BMW Professional radio), SA 606 (Business navigation system) or SA 609 (Professional navigation system).

Retrofit kit No.   65 41 0 412 881   iPod interface retrofit kit

Installation time
The installation time is approx 1.0 hour, but may vary depending on the condition of the car and the equipment in it. The installation time will increase by approx. 0.25 hours for cars with SA 672 (CD changer).

In general the car must be upgraded to the latest I stage status by flashing before starting the work. Depending on the production age of the car and the work already carried out on the car, the programming times will vary, which means that we cannot quote a specific time at this point.

The installation time does not include any time for programming/encoding, as this depends on the age of the car and the equipment in it.

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

To avoid unnecessary extra work and/or costs, if any installation or function problem occurs, after a brief troubleshooting session (approx. 0.5 hours), please contact the following:
1. Either your national subsidiary or your regional office, or
2. The Support team via the Aftersales Assistance Portal (ASAP) using the optional technical parts
   support application.
Specify the chassis number and the part number of the installed retrofit kit and give a precise description of the problem.

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

Pictograms:

▷ Denotes instructions that draw your attention to special features.

◀ Denotes the end of the instruction or other text.

Installation information

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

Ensure that the cables/lines are not kinked or damaged as you install them in the car. Costs incurred as a result of 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.

After the installation work the retrofit must be programmed / coded using SSS (software service station) via the **Retrofit** path.

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

Assembly instructions for cars with SA 672 (CD changer)
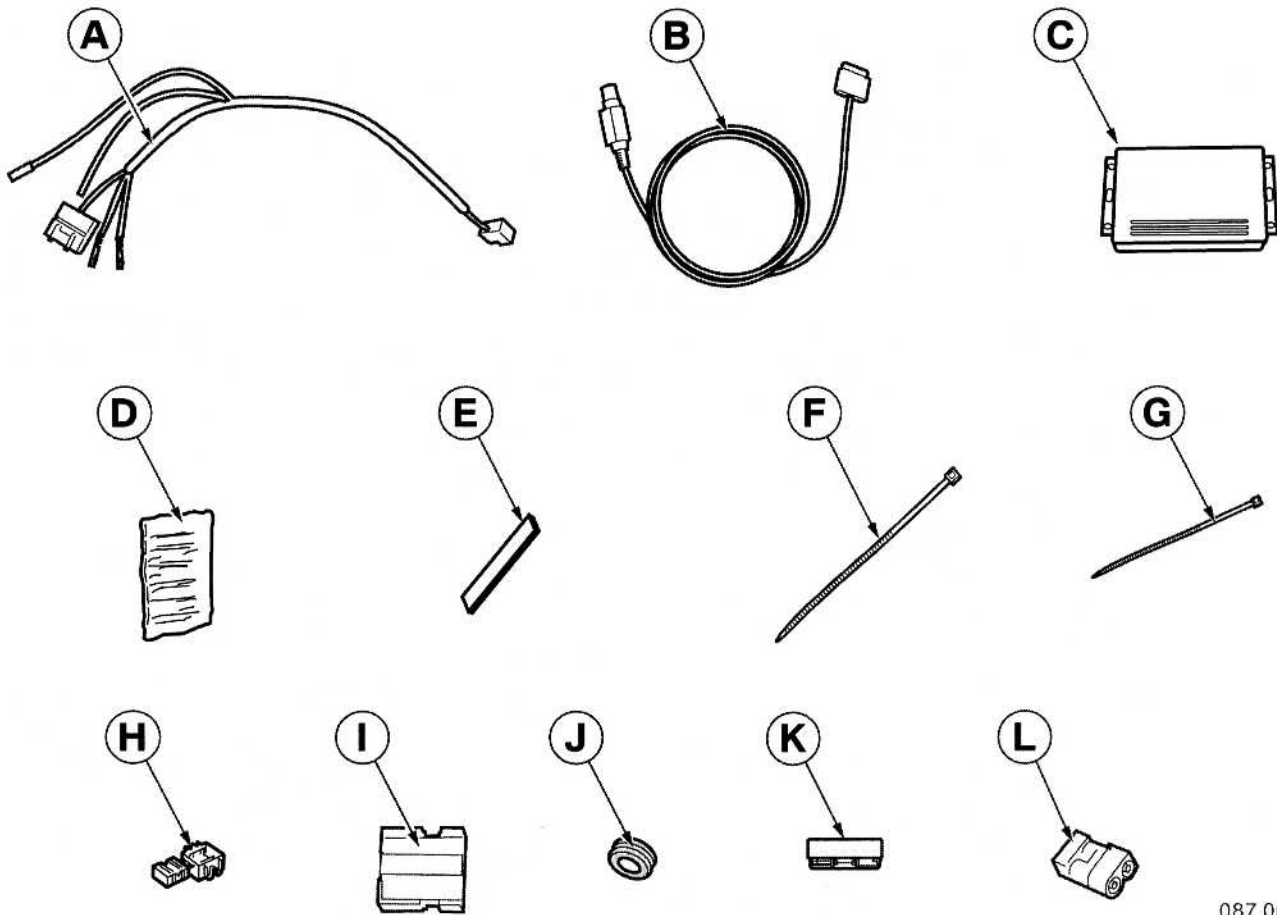
- The CD changer must be removed.

Special tools required

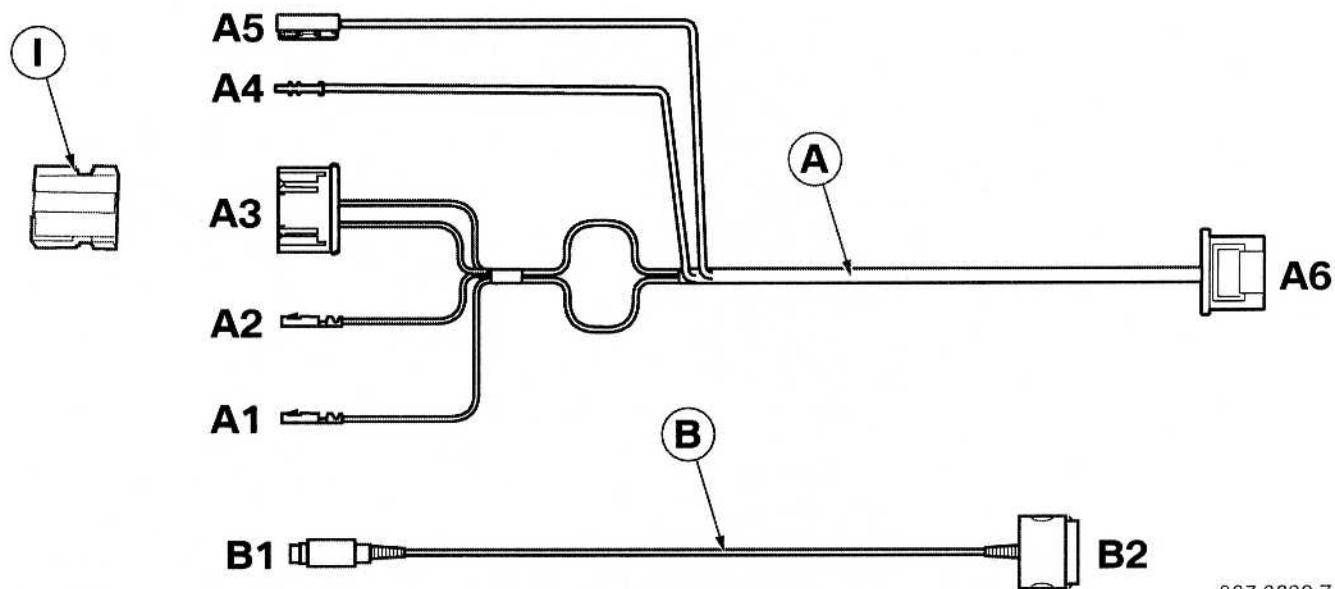00 9 317 Trim wedge

Contents

1. Parts list

087 0628 Z

Legend

A Cable kit
B Connection cable
C Interface
D Felt (4x)
E Sealing strip (4x, not required)
F Cable tie 445 x 4.8 mm (2x)
G Cable tie 200 x 3.6 mm (10x)
H Miniature connector (2x, not required)
I Black 4-pin socket casing
J Grommet
K Fibre optic cable connector (cars with a CD changer only)
L Fibre optic cable casing (not required)

2. Preparatory work

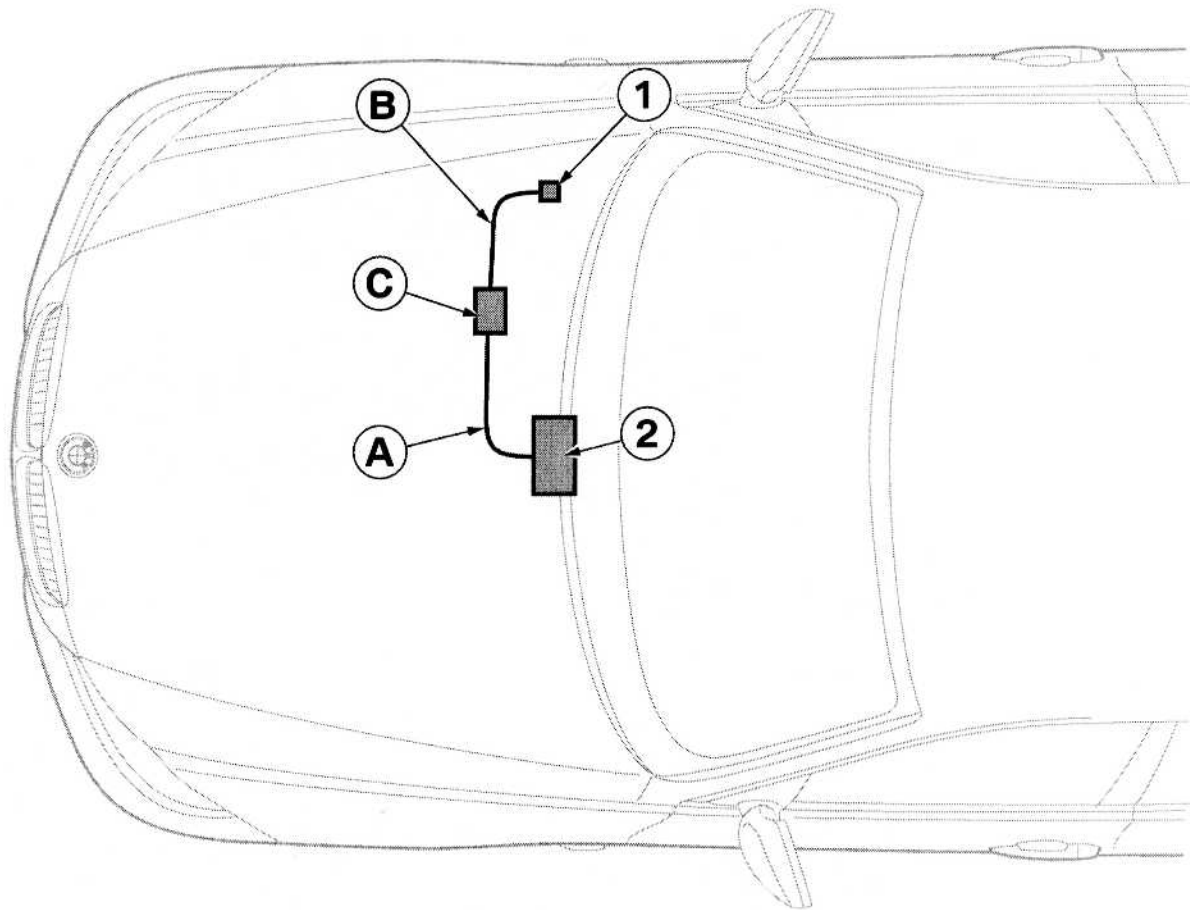|	TIS No.
Conduct a brief test	---
Disconnect negative pole of battery	12 00 ...
The following components must be removed first of all	
Décor strip on right of dashboard	51 45 380
Central dashboard trim	51 45 310
Glove compartment	51 16 360
Heating/air-conditioning control	64 11 377
Audio system controller (ASK) or Car Communication Computer (CCC)	65 12 200 65 83 010

3. Connection diagram

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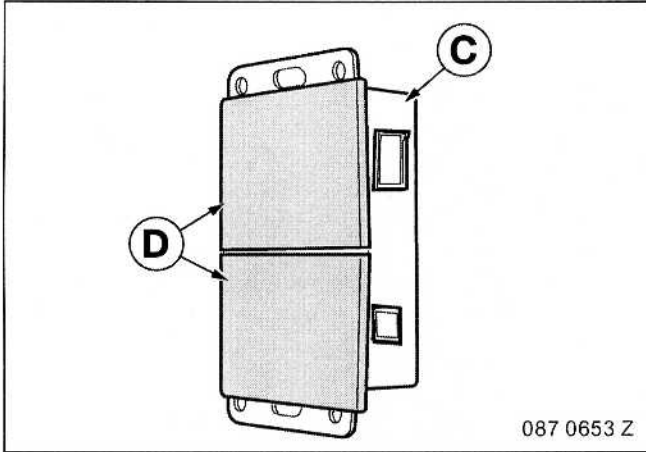| Branch/Item	Designation	Signal	Cable colour / Cross-section	Connection location in the car	Abbreviation / Slot
A	Cable kit	---	---	---	---
A1	Socket contact	Terminal 30	RT 2.5 mm^2	On ASK or CCC	X13812 PIN 15
A2	Socket contact	Terminal 31	BR 2.5 mm^2	On ASK or CCC	X13812 PIN 12
A3	Black 4-pin plug casing	---	---	On socket casing **I**	---
A4	Fibre optic cable	MOST	GN	On ASK or CCC	X13815 PIN 2
A5	Fibre optic cable connector	MOST	GN	On disconnected fibre optic cable of ASK or CCC	---
A6	Black 4+2-pin socket casing	---	---	On interface **C**	---
B	Connection cable	---	---	---	---
B1	Black 12-pin socket casing	---	---	On interface **C**	---
B2	iPod connection plug	---	---	On iPod	---
I	Black 4-pin socket casing	---	---	With cables disconnected from ASK or CCC on branch **A3**	---

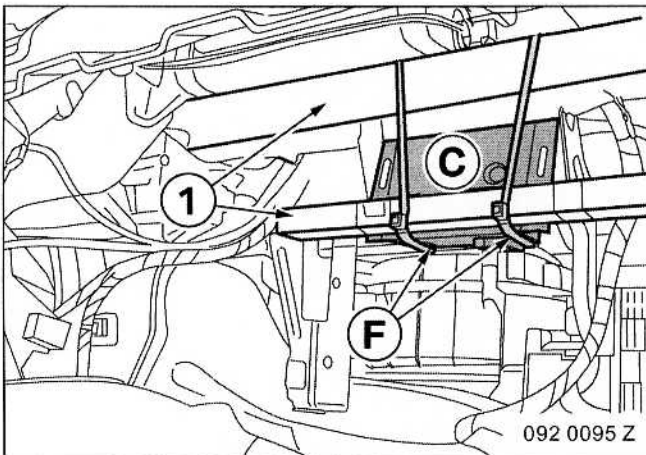## 4.   Installation and cabling diagram

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Legend

A   Cable kit
B   Connection cable
C   Interface

1   iPod connection plug **B2**
2   ASK or CCC, plug **X13812** and **X13815**

5.   To install the interface and connection cable
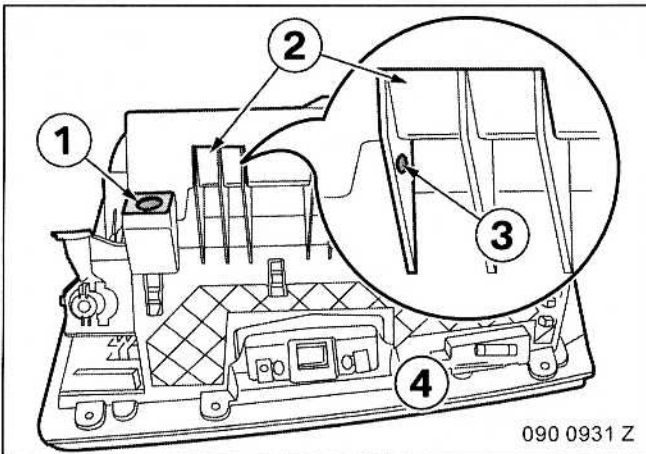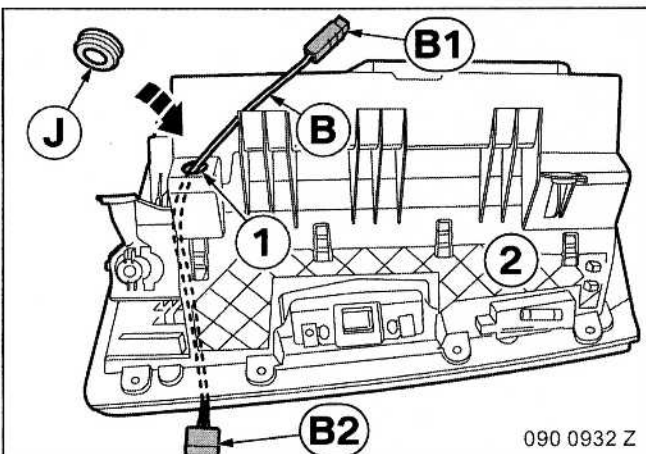
Affix felt **D** to the back of interface **C**.

087 0653 Z

Secure interface **C** to the tube (1) using cable ties **F**.

▷ Fit cable ties **F** so that the retaining lugs of the glove compartment can be inserted without difficulty during installation. ◄

092 0095 Z

Drill through the glove compartment (4) in the middle of the marked area (1) using an 18 mm step drill bit.

Drill through the retaining lug (2) of the glove compartment (4) in the marked area (3) using a 5 mm twist drill bit.
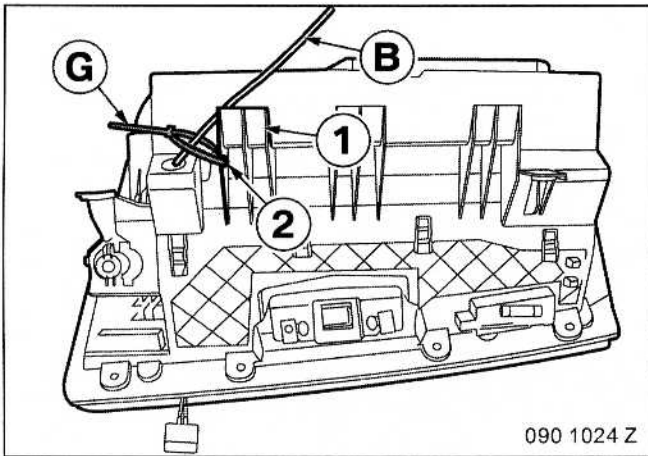
090 0931 Z

Install connection cable **B** as follows:

- Route branch **B1** through the hole (1)

- Push grommet **J** onto branch **B1** and insert it into the hole (1)

- Pull branch **B1** through grommet **J** until iPod connection plug **B2** is located just above the outside edge of the glove compartment (2)
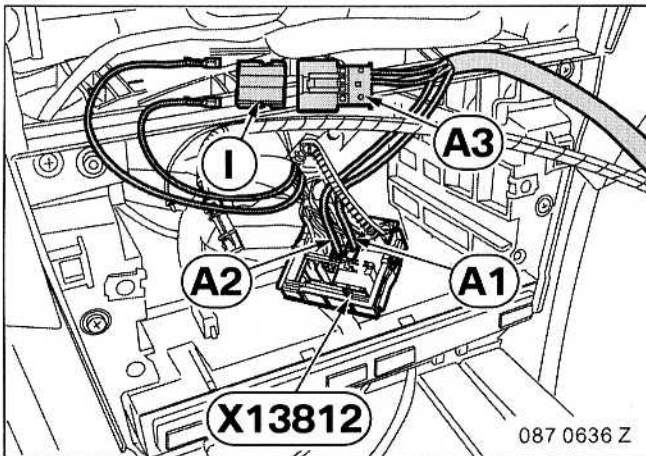
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5. To install the interface and connection cable

090 1024 Z

Use cable tie **G** to secure connection cable **B** to the hole (2) in the retaining lug (1) to act as strain relief.

6. To connect the cable kit and connection cable

Disconnect the following cables from plug **X13812** (black 16-pin) of the ASK or CCC and connect to socket casing **I**:

- Red/green cable from PIN 15 to socket casing **I** PIN 1

- Brown cable from PIN 12 to socket casing **I** PIN 2

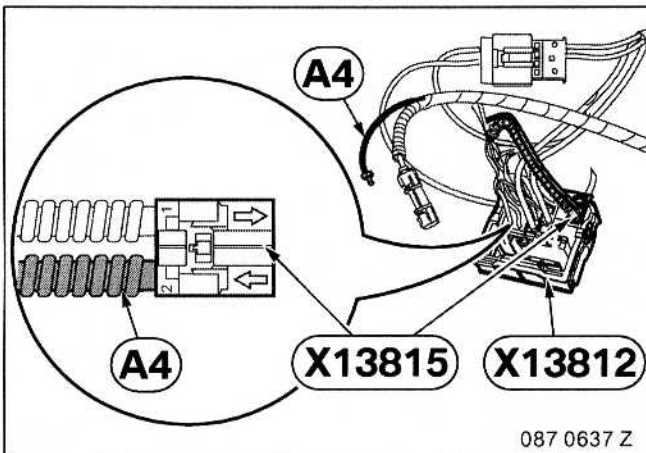Connect branches **A1** and **A2** to plug **X13812** as follows:

- Branch **A1**, red cable, to PIN 15

- Branch **A2**, brown cable, to PIN 12

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

Unclip fibre optic cable casing **X13815** (black 2-pin) from plug **X13812** (black 16-pin) of the ASK or CCC.
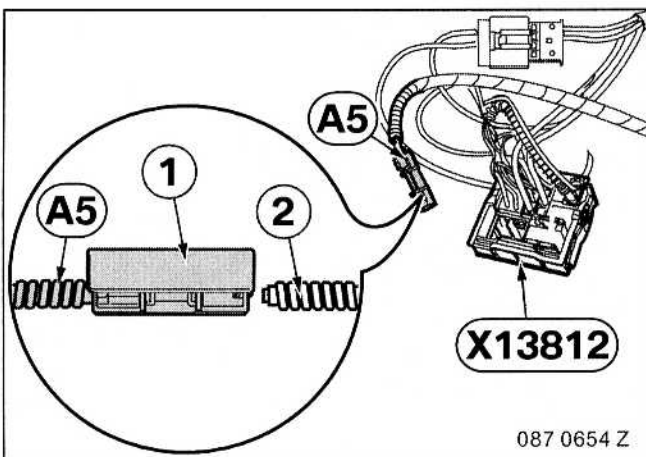
Disconnect the outgoing fibre optic cable from fibre optic cable casing **X13815** PIN 2 and connect branch **A4**.

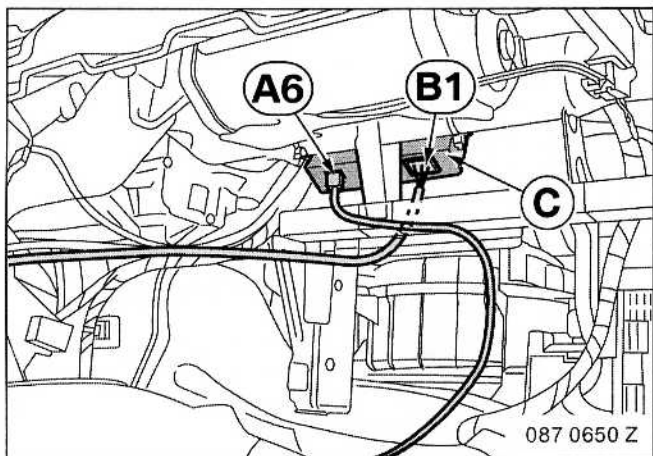Clip fibre optic cable casing **X13815** into plug **X13812**.

Unlock the fibre optic cable connector (1) on branch **A5** and connect the disconnected fibre optic cable (2).

Connect plug **X13812** (black 16-pin) to the ASK or CCC.

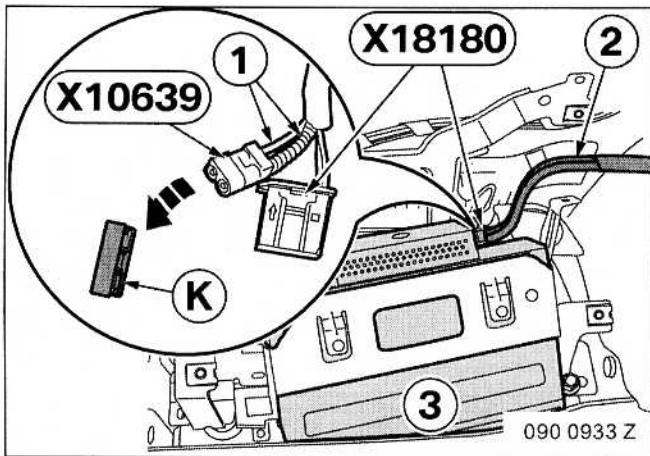087 0636 Z

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6. To connect the cable kit and connection cable

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Route branch **A6** along the standard wiring harness to interface **C** and connect it.

Route branch **B1** to interface **C** and connect it.

7.   Concluding work and coding

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Cars with a CD changer only

Remove the CD changer (3) according to TIS RA 65 11 070.

Unclip fibre optic cable casing **X10639** (black 2-pin) from plug **X18180** (black 4+2-pin).
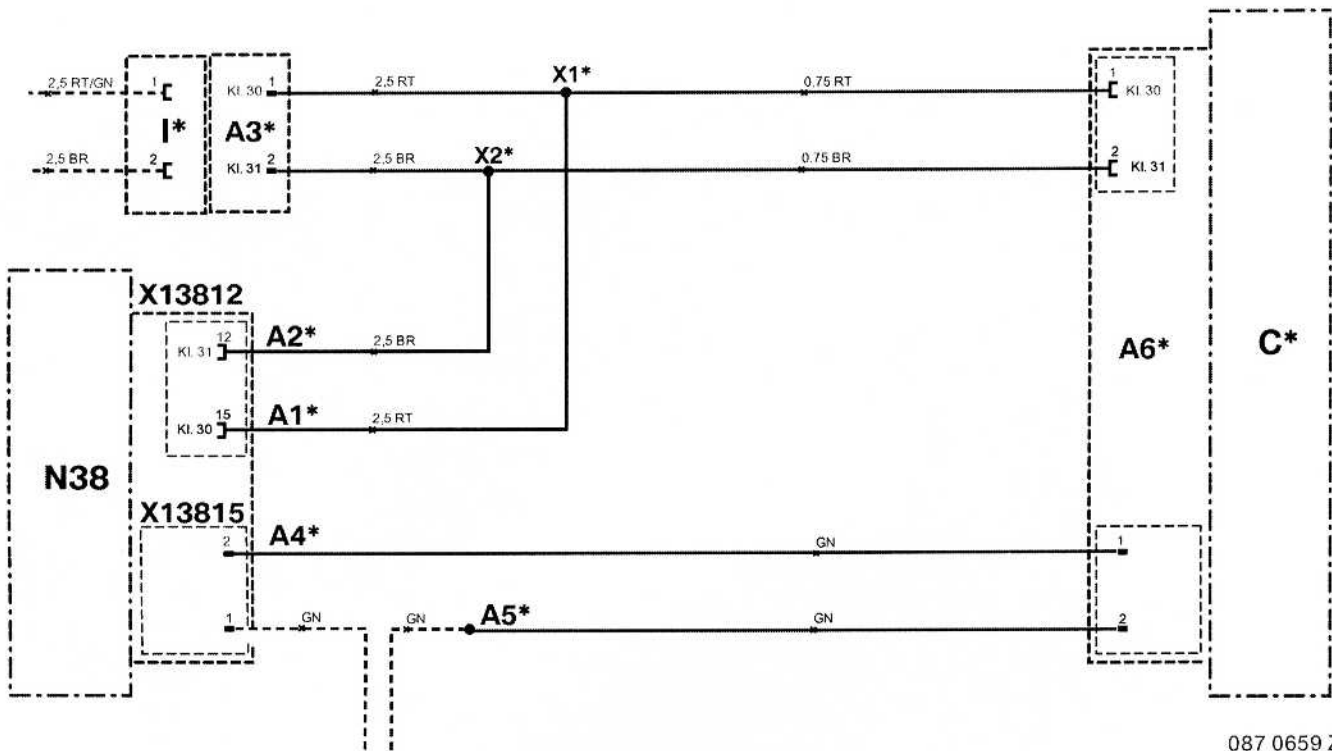
Disconnect both fibre optic cables (1) and connect with fibre optic cable connector **K**.

Tie back the connection cable (2) of the CD changer (2).

This retrofit system requires coding.

- Connect the battery
- Encode/program the retrofit with SSS (software service station) via the **Retrofit** path
- Conduct a brief test
- Conduct a function test
- Re-assemble the car

8. Circuit diagram

2,5 RT/GN I* A3* Kl. 30 1 2,5 RT X1* 0.75 RT Kl. 30 1

2,5 BR 2 Kl. 31 2 2,5 BR X2* 0.75 BR Kl. 31 2

X13812 A2* Kl. 31 12 2,5 BR

A1* Kl. 30 15 2,5 RT

N38

X13815 A4* 2 GN 1

1 GN GN A5* GN 2

A6* C*

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Legend

A1*	Socket contact
A2*	Socket contact
A3*	Black 4-pin plug casing
A4*	Fibre optic cable
A5*	Fibre optic cable connector
A6*	Black 4+2-pin socket casing
C*	Interface
I*	Black 4-pin socket casing
N38	ASK or CCC
X1*	Terminal 30 connector
X2*	Terminal 31 connector
X13812	Black 16-pin socket casing
X13815	Black 2-pin socket casing

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

Cable colours

BR	Brown		RT	Red
GN	Green		SW	Black