

Original BMW Accessory.

Installation Instructions.



Cruise Control Retrofit

BMW Z4 Roadster (E85)

BMW Z4 Coupé (E86)

Retrofit Kit. No.:	65 71 0 152 659	Retrofit Kit – Cruise Control
	65 71 0 153 114	Retrofit Kit – Cruise Control

Installation time

The installation time is approx 0.75 – 1.0 hours, but this may vary depending on the condition of the car and the equipment in it.

Important information

These installation instructions are primarily designed for use within the BMW dealership organization and by authorized 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**
- 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

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.

Some of the installation of the aerial is shown only on the left-hand side of the car, proceed in the same way on the right-hand side of the car.

If the specified PIN chambers are already used, 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 using SSS (software service station) via the **Retrofit** path.

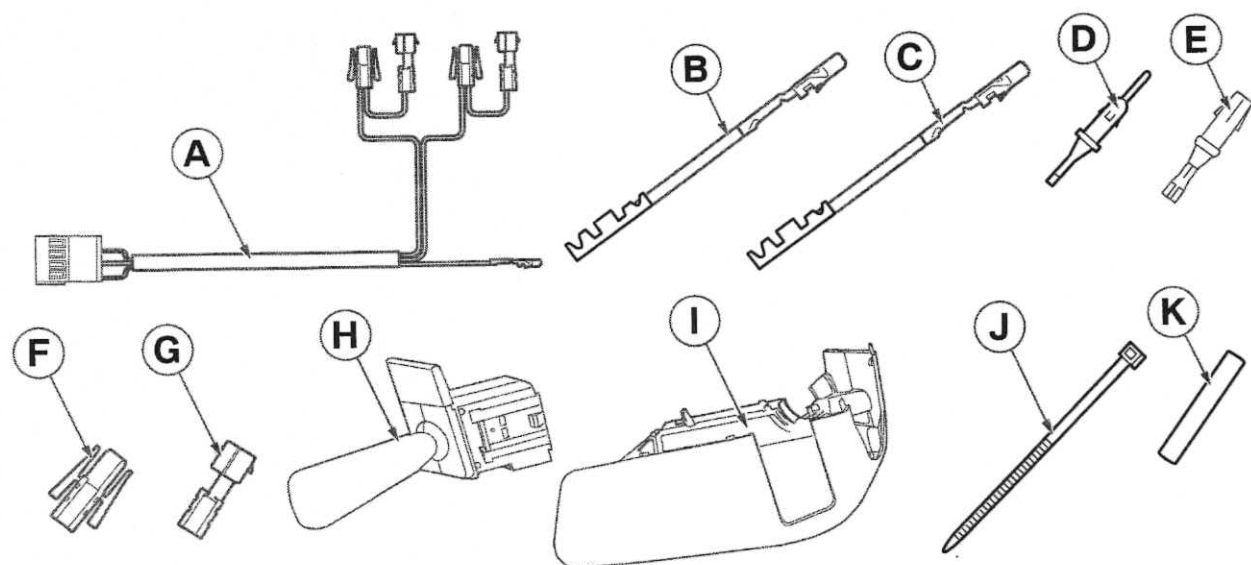
Special tools required

None

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1. Parts list



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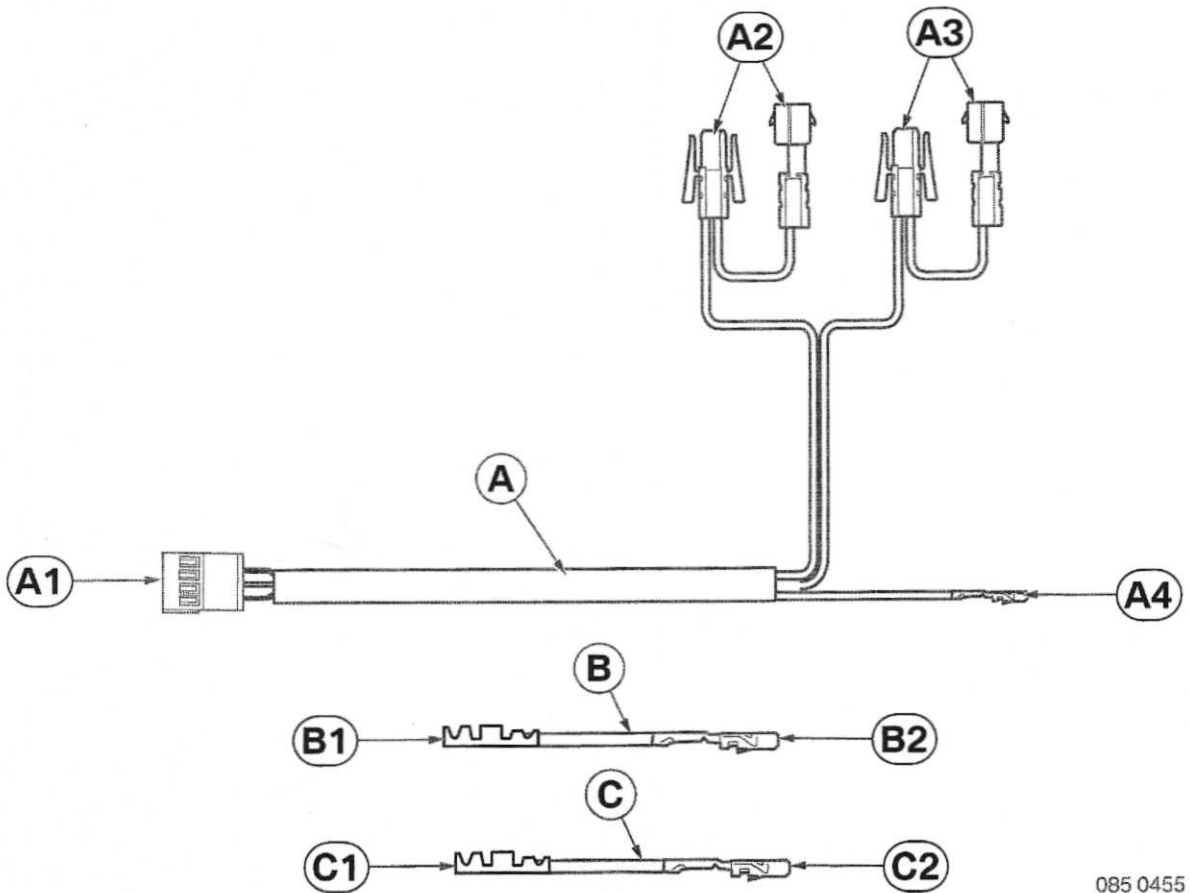
Legend

- A Wiring harness (for cars built after 10/04 only)
- B Black repair cable (for cars with M54 engine built after 01/06 only)
- C Blue repair cable (for cars with N46 engine built after 10/04 or N52 engine only)
- D Plug contact (2x, for cars built after 10/04 only)
- E Socket contact (2x, for cars built after 10/04 only)
- F Socket contact casing (2x, for cars built after 10/04 only)
- G Plug contact casing (2x, for cars built after 10/04 only)
- H Cruise control switch
- I Trim bottom section
- J Cable tie 3.0 x 200 mm (10x)
- K Shrink hose (for cars built after 10/04 only)

2. Preparations

	TIS instruction No.
Conduct a brief test	---
Disconnect negative pole of battery	12 00 ...
The following components must be removed first of all:	
Steering column trim bottom section (no longer required)	32 31 020
Pedal trim (for cars built after 10/04 only)	51 45 185
Light switch centre (for cars built after 10/04 only)	61 31 033
Electrics box cover (for cars built after 10/04 only)	---

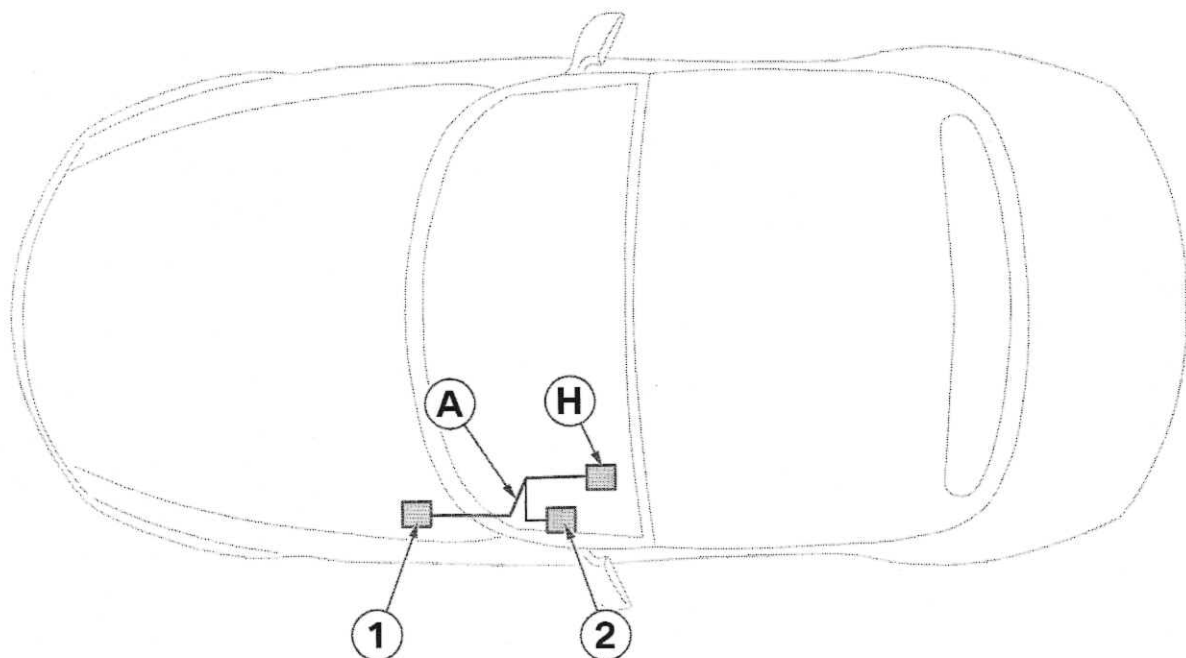
3. Connection diagram (for cars built after 10/04 only)



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Item	Designation	Signal	Cable colour / Cross-section	Connection location in the car	Abbreviation / Slot
A	Cable kit	---	---	---	---
A1	Black 4-pin socket casing	---	---	On cruise control switch H	X72
A2	Twin-lead terminal	Terminal R	VI/GE 0,5 mm ²	On light switch centre Black 54-pin plug	X12 PIN 27
A3	Twin-lead terminal	Terminal 31E	BR/SW 0.35 mm ²	On light switch centre Black 54-pin plug	X12 PIN 31
A4	Socket contact	FGRS	BL/SW 0.5 mm ²	Cars with M54 engine (before 01/06) only On DME control unit black 40-pin plug	X60004 PIN 27
B	Repair cable	---	---	---	---
B1	Butt-joint connector	FGRS	SW 0.5 mm ²	Cars with M54 engine (after 01/06) only On branch A4 using a butt-joint connector	---
B2	Socket contact	FGRS	SW 0.5 mm ²	On DME control unit natural 42-pin plug	X60191 PIN 39
C	Repair cable	---	---	---	---
C1	Butt-joint connector	FGRS	BL 0.5 mm ²	Cars with N46 or N52 engine only On branch A4 using a butt-joint connector	---
C2	Socket contact	FGRS	BL 0.5 mm ²	On DME control unit black 26-pin plug	X60002 PIN 4

4. Installation and cabling diagram

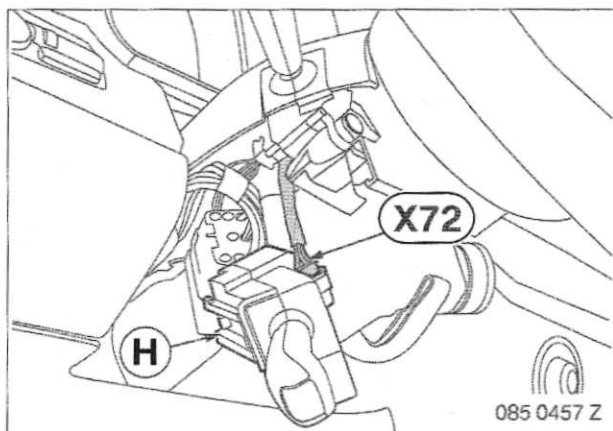


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Legend

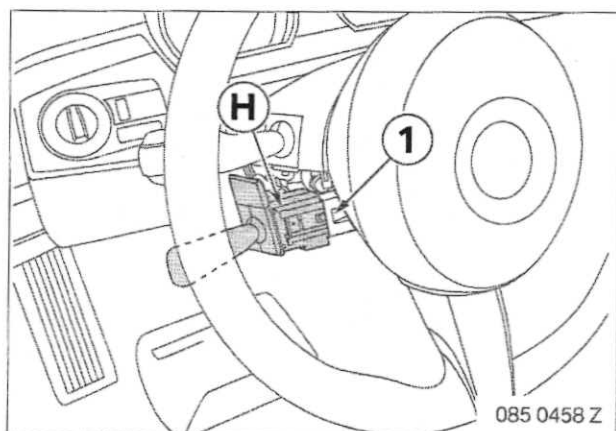
- A Wiring harness (for cars built after 10/04 only)
- H Cruise control switch
- 1 DME control unit (for cars built after 10/04 only)
- 2 Light switch centre (for cars built after 10/04 only)

5. Installing the cruise control switch (cars built before 10/04 only)



Release tied back plug **X72**, black 4-pin, from the wiring harness.

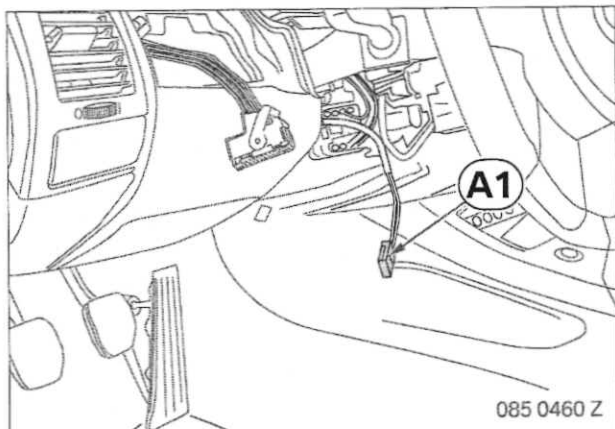
Connect plug **X72** to cruise control switch **H**.



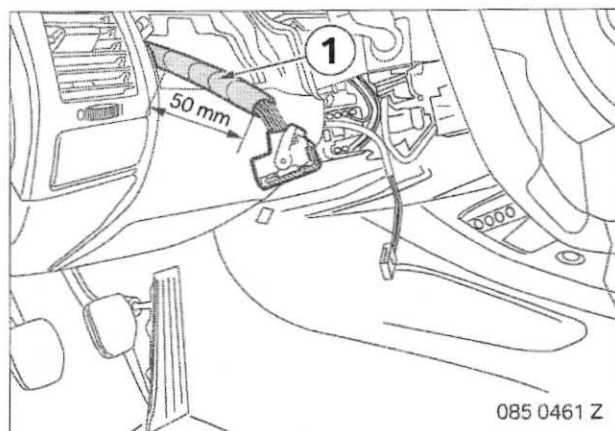
Push cruise control switch **H** into the guide in the steering column (1).

Install trim bottom section **I** as described in TIS RA 32 31 010.

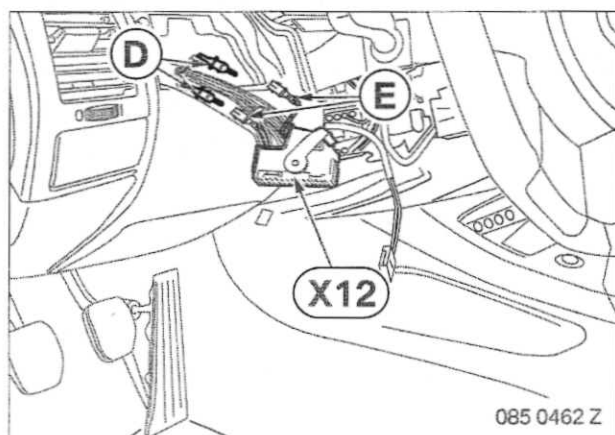
6. Installing the cruise control switch (cars built after 10/04 only)



Route branch **A1** along the cable guide on the steering column to the cruise control switch holder.

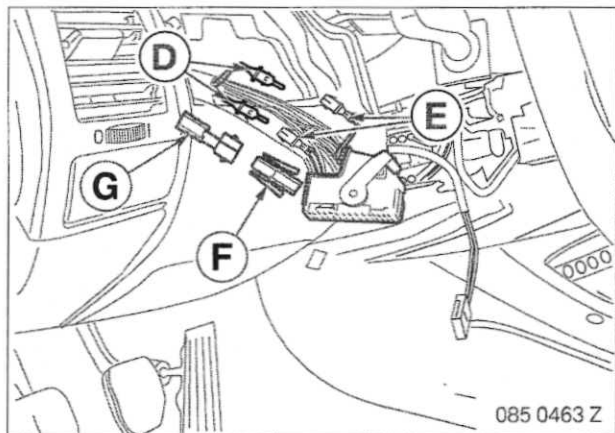


Remove the cable insulation (1) over a length of approx. 50 mm.



Cut the cables leading to plug **X12**, black 54-pin, violet/yellow cable PIN 27 and brown/black cable PIN 31, approx. 40 mm behind plug **X12**.

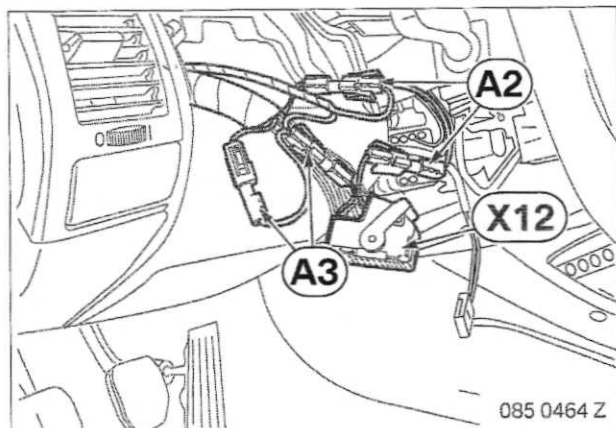
Crimp a socket contact **E** and a plug contact **D** onto the cable ends.



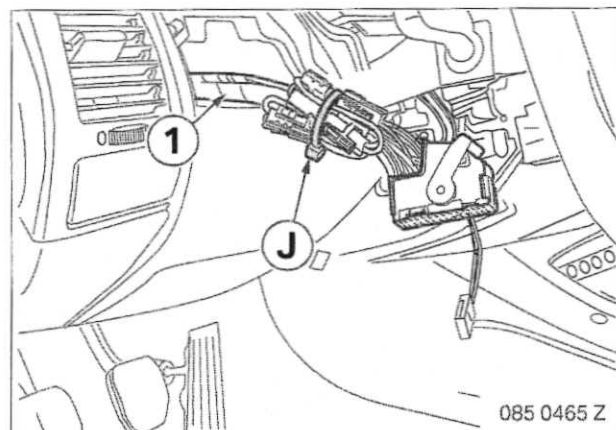
Place socket contact casing **E** onto socket contacts **D**.

Place plug contact casing **G** onto plug contacts **F**.

6. Installing the cruise control switch (cars built after 10/04 only)

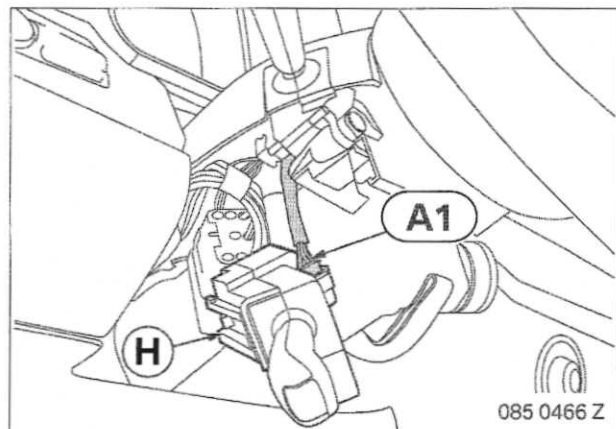


Route branches **A2**, violet/yellow cable, and **A3**, brown/black cable, to plug **X12** and connect to the same colours on the newly made connections.

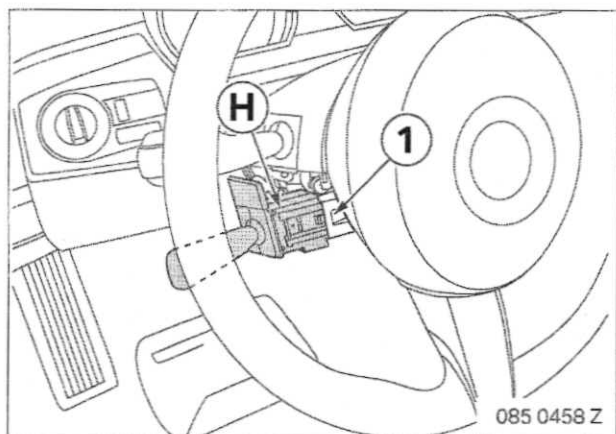


Secure the plug connectors to the wiring harness (1) using cable ties **J**.

Re-install the light switch centre as described in TIS RA 61 31 033.



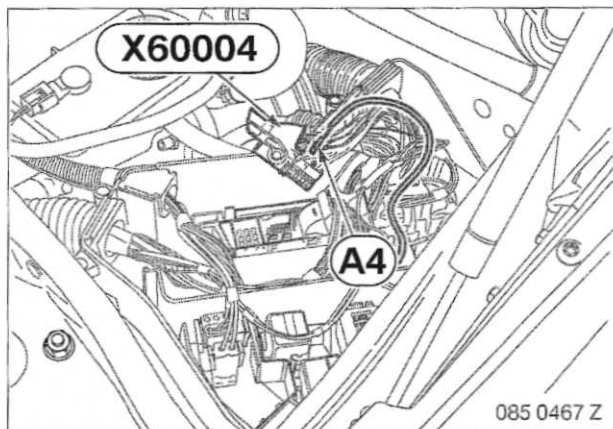
Connect branch **A1** to cruise control switch **H**.



Push cruise control switch **H** into the guide in the steering column (1).

Install trim bottom section **I** as described in TIS RA 32 31 010.

6. Installing the cruise control switch (cars built after 10/04 only)



On RHD cars the tied back cable on branch **A4** must be released. Branch **A4** must be routed behind the heater/air conditioning unit to the left-hand side of the car and from there into the electrics box. ◀

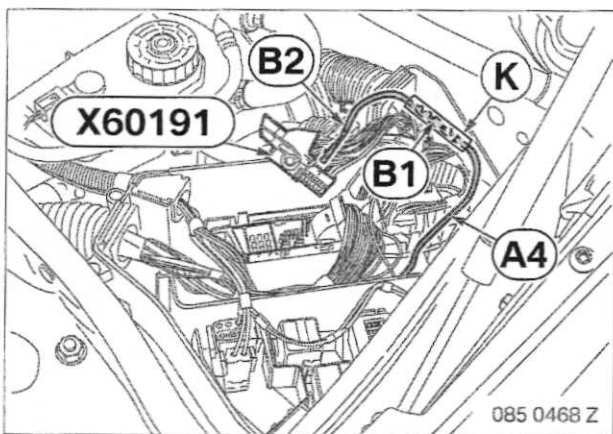
Cars with M54 engine (before 01/06) only

Disconnect and open plug **X60004**, black 40-pin, from the DME control unit.

Route branch **A4**, blue/black cable, through the cable passage into the electrics box.

Connect branch **A4** to plug **X60004**, PIN 27.

Reassemble plug **X60004** and reconnect it to the DME control unit.



Cars with M54 engine (after 01/06) only

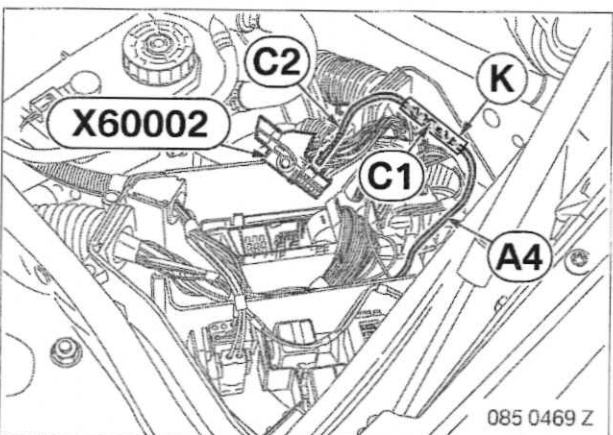
Cut the socket contact off branch **A4**, blue/black cable.

Crimp branch **B1** onto the open cable end of branch **A4** with shrink hose **K**.

Disconnect and open plug **X60191**, natural 42-pin, from the DME control unit.

Connect branch **B2**, black cable, to plug **X60191** PIN 39.

Reassemble plug **X60191** and reconnect it to the DME control unit.



Cars with N46 or N52 engine only

Cut the socket contact off branch **A4**, blue/black cable.

Crimp branch **C1** onto the open cable end of branch **A4** with shrink hose **K**.

Disconnect and open plug **X60002**, black 26-pin, from the DME control unit.

Connect branch **C2**, blue cable, to plug **X60002** PIN 4.

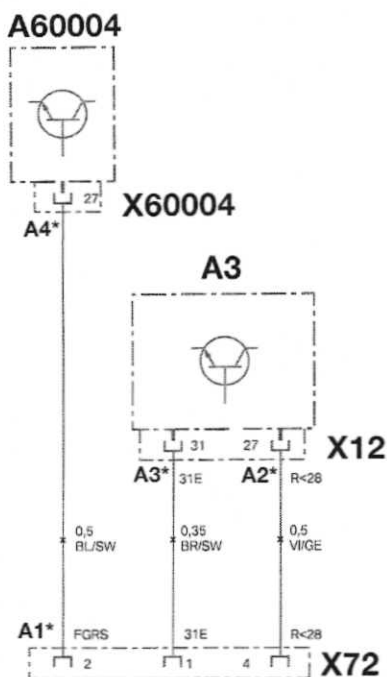
Reassemble plug **X60002** and reconnect it to the DME control unit.

7. Concluding work

- Connect the battery
- Encode/Program the retrofit with SSS (software service station) via the **Retrofit/CIP** path
- Conduct a brief test
- Conduct a function test
- Re-fit the car components as required

8. Circuit diagram

Cars with M54 engine (before 01/06) only



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Legend

- A3 Light switch centre control unit
- A60004 DME control module
- X12 Black 54-pin plug on light switch centre (**A2*** and **A3***)
- X72 Black 4-pin socket casing (**A1***)
- X60004 Black 40-pin plug, on DME control unit (**A4***)

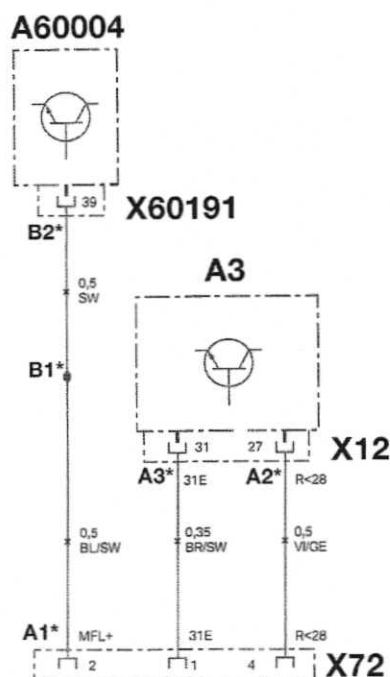
Cable colours

- BL Blue
- BR Brown
- GE Yellow
- SW Black
- VI Violet

All designations with an asterisk (*) only apply to these installation instructions and these circuit diagrams.

8. Circuit diagram

Cars with M54 engine (after 01/06) only



085 0471 Z

Legend

- A3 Light switch centre control unit
- A60004 DME control module
- X12 Black 54-pin plug on light switch centre (**A2*** and **A3***)
- X72 Black 4-pin socket casing (**A1***)
- X60191 Natural 42-pin plug, on DME control unit (**B2***)

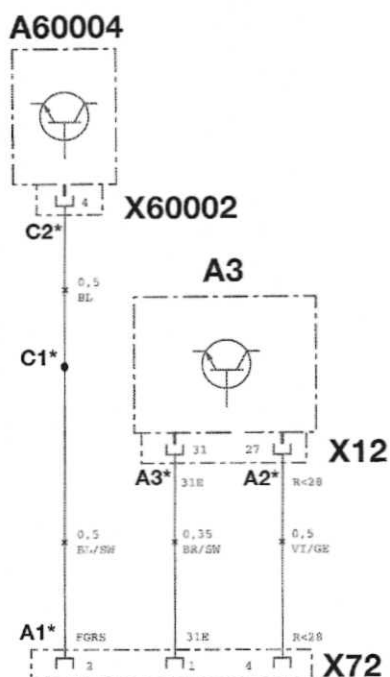
Cable colours

- BL Blue
- BR Brown
- GE Yellow
- SW Black
- VI Violet

All designations with an asterisk (*) only apply to these installation instructions and these circuit diagrams.

8. Circuit diagram

Cars with N46 or N52 engine only



085 0472

Legend

- A3 Light switch centre control unit
- A60004 DME control module
- X12 Black 54-pin plug on light switch centre (**A2*** and **A3***)
- X72 Black 4-pin socket casing (**A1***)
- X60002 Black 26-pin plug, on DME control unit (**C2***)

Cable colours

- BL Blue
- BR Brown
- GE Yellow
- SW Black
- VI Violet

All designations with an asterisk (*) only apply to these installation instructions and these circuit diagrams.