

Original BMW Accessories. Installation Instructions.



BMW Performance Power Kit Retrofit

BMW 1 Series (E82, E88)

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

These installation instructions are only valid for 135i and 335i cars. On US cars only in conjunction with SA 840 (high-speed tuning).

Retrofit kit number

| | |
|-----------------|--|
| 11 12 2 157 664 | BMW Performance Power Kit Retrofit Kit |
| 11 12 2 157 665 | BMW Performance Power Kit Retrofit Kit |

Installation time

The installation time is **approx. 4.0 hours**. This may vary depending on the condition of the car and the equipment in it.

In general the car must be upgraded to the latest I stage status by flashing before starting the conversion work. Differing programming times may be necessary depending on the production age of the vehicle and on work previously performed on the vehicle.

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

In the event of any installation or functional problems, restrict the troubleshooting session to about 0.5 hours for mechanical work or 1 hour for electrical work.

To avoid unnecessary extra work and/or costs, an inquiry is to be sent straight away to the technical parts support via the Aftersales 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 provided 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 other text.

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.

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

Ordering instructions

The following parts are not supplied in the retrofit kit and must be ordered separately, depending on the car (see EPC for part number and details):

- Radiator grille **AD**
- Air guides **AG** to **AT**
- Cars built before 3/07 only: Fan relay auxiliary cable **BA** including insulation-piercing connector **BB**
- For RHD cars: RHD auxiliary cable **BC** including shrink hoses **BD**
- E82/E88 cars only: Horn extension **BE**, 2 x retaining bracket **BF**, 2 x rivet nut M6 **BG** and 2 x hexagon screw with washer M6 x 15 mm **BH**

Release code

The release code (FSC) is available for downloading via ASAP, see the section entitled “Concluding work”.

Parts reports (for German-speaking countries only)

Print out the “Parts reports” section at the end of the installation instructions and give it to the customer.

Workshop certificate

Print out the “Workshop certificate” section at the end of the installation instructions, fill it in and give it to the customer.

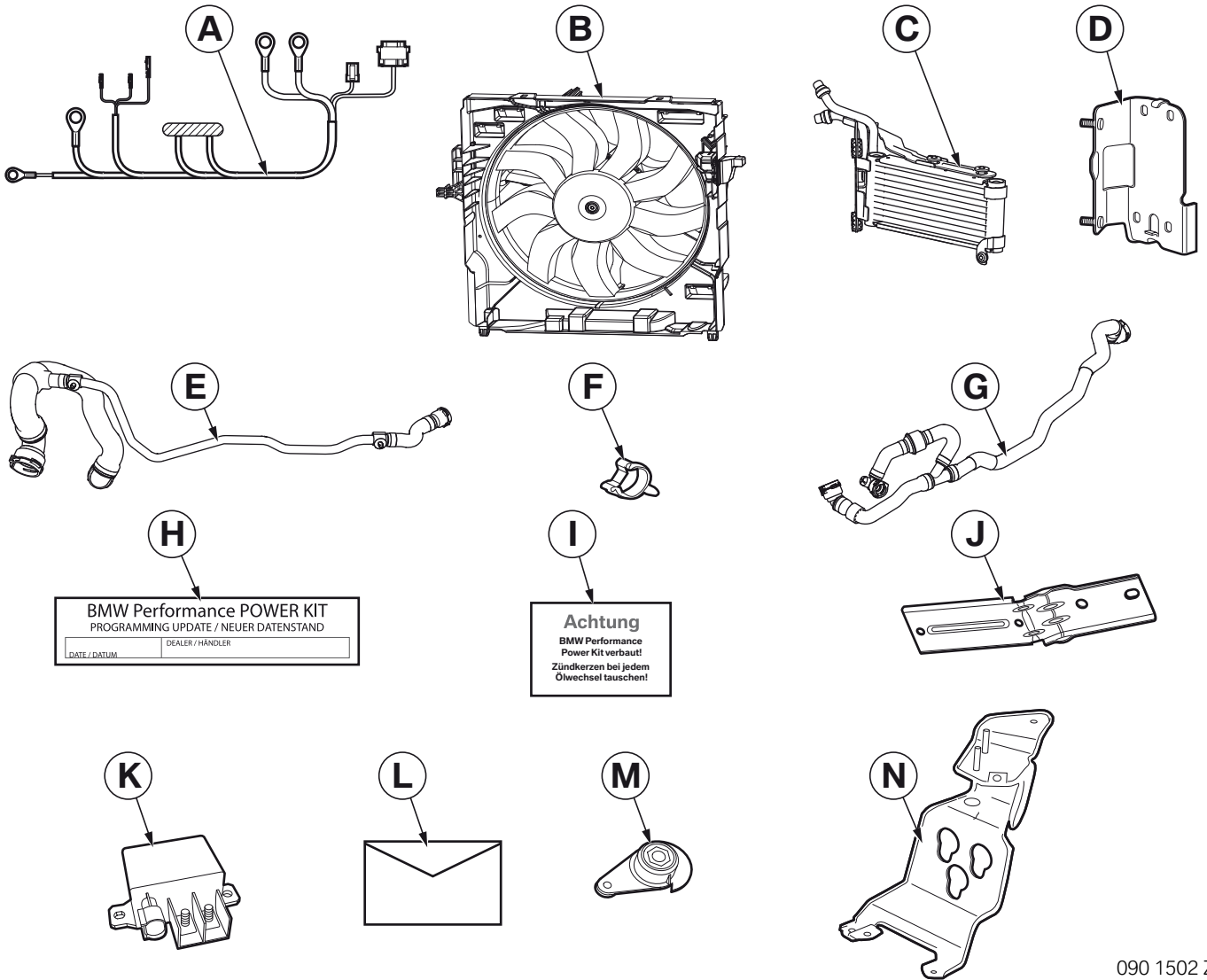
Special tools required

- 00 9 310, Trim wedge
- 00 9 340, Removal tool
- 13 3 010, Hose clip
- 12 1 172, Spark plug tool
- 12 1 220, Spark plug wrench SW 14 bihexagon
- 12 1 230, Installation tool
- 61 6 210, Wiper arm puller

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1. Parts list for retrofit kit

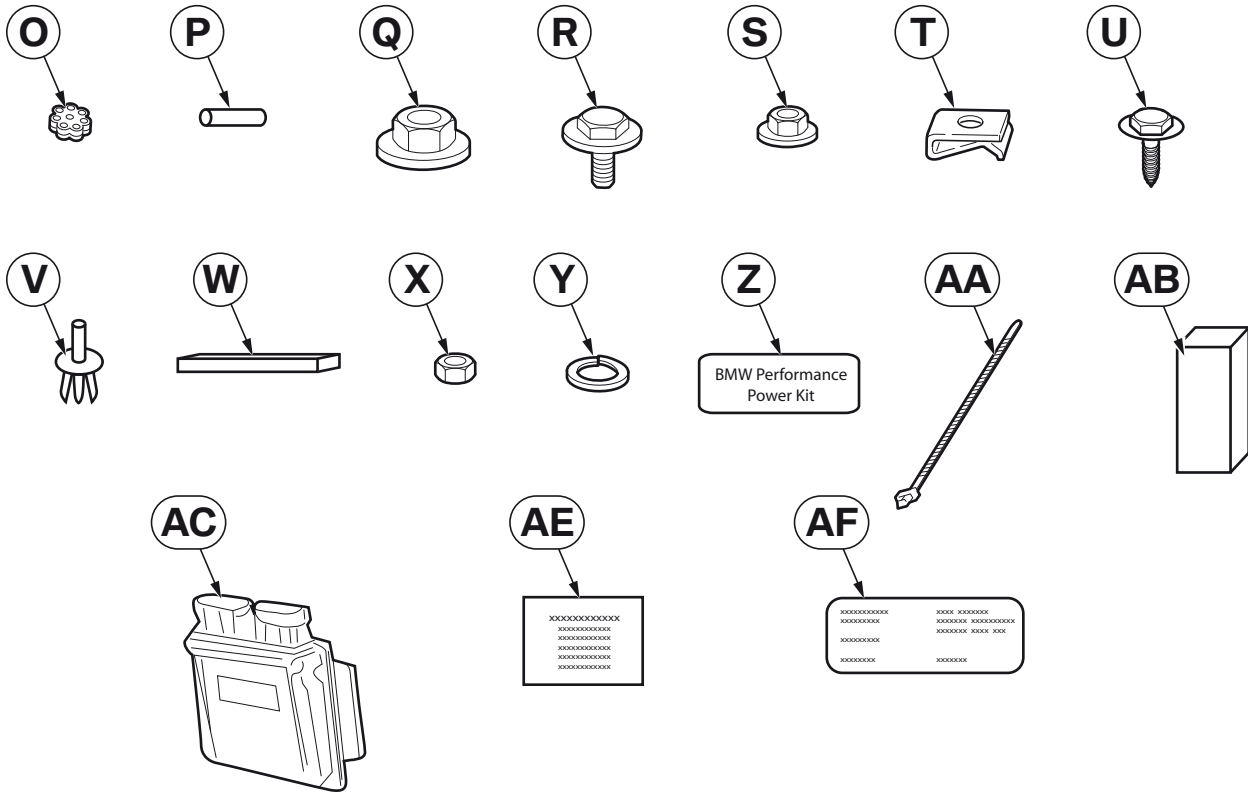


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Legend

- A** Retrofit wiring harness
- B** Electric fan
- C** Additional radiator
- D** Additional radiator holder
- E** Return hose
- F** Hose holder (2 x)
- G** Supply hose
- H** Engine control unit sticker
- I** Service sticker (for cars built before 3/09 only)
- J** Relay holder
- K** Fan relay
- L** Release code certificate (in red envelope)
- M** Thread plate
- N** Servo oil tank holder

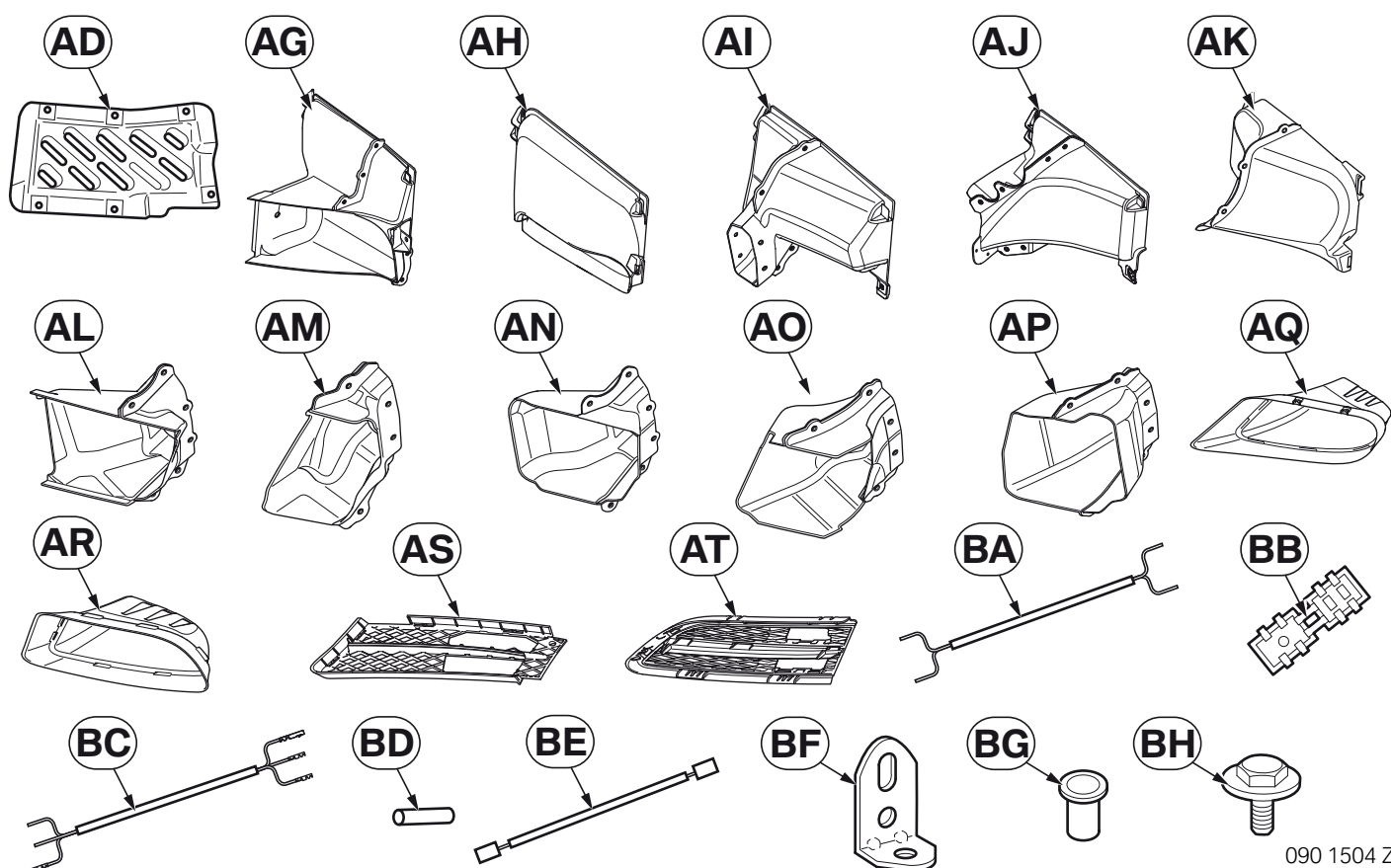
1. Parts list for retrofit kit



090 1503 Z

- O** Rubber bearing (3 x)
- P** Shrink hose (2 x)
- Q** Hexagon nut M8 (2 x)
- R** Hexagon screw with washer M6 x 20 mm (3 x)
- S** Hexagon nut with collar M6 (2 x)
- T** Sheet metal nut (8 x)
- U** Hexagon sheet metal screw (8 x)
- V** Expanding rivet (6 x)
- W** Sealing strips
- X** Hexagon nut M6 (2x)
- Y** Spring washer A6 (2 x)
- Z** BMW Performance emblem
- AA** Cable tie 200 x 3.6 mm (20 x)
- AB** Spark plugs (6 x, only for cars built before 3/09 or with more than 60,000 km/45,000 miles on the clock)
- AC** Engine control unit (cars with MSD80 only)
- AE** Information label regarding aluminium screws
- AF** ARB EO# label (for US cars only, not included in the retrofit kit)

2. Parts list for auxiliary components (not included in the retrofit kit)



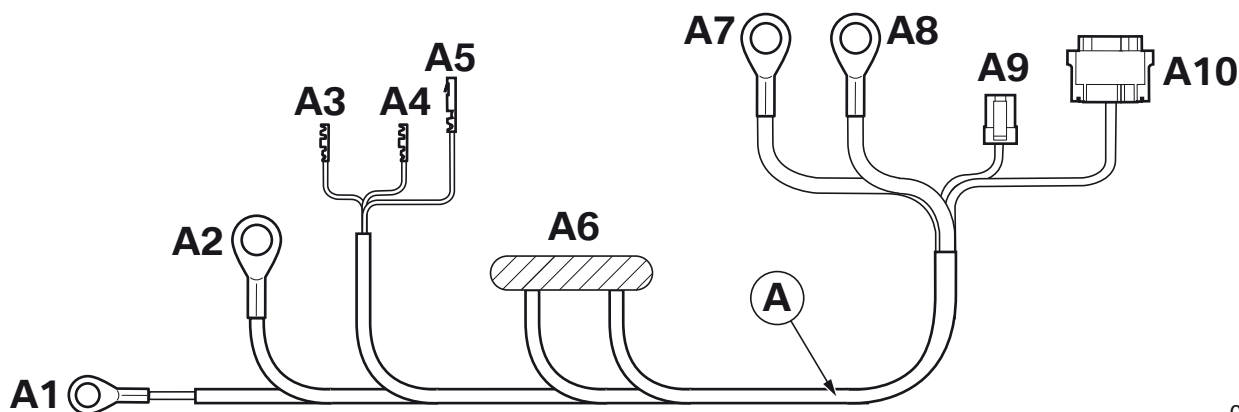
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- AD** Radiator grille
- AG** Rear air guide, for E82/E88 with standard or M bumper
- AH** Rear air guide, for E82/E88 with Performance bumper
- AI** Rear air guide, for all E90/E91/E92/E93 except E90/E91 LCI with M or Performance bumper
- AJ** Rear air guide, for E90/E91 LCI with M bumper
- AK** Rear air guide, for E90/E91 LCI with Performance bumper
- AL** Front air guide, for E90/E91 with standard bumper
- AM** Front air guide, for E90/E91 LCI with standard bumper
- AN** Front air guide, for E90/E91 with M bumper
- AO** Front air guide, for E92/E93 with standard bumper
- AP** Front air guide, for E92/E93 with M bumper
- AQ** Left air guide, for E82/E88 with Performance bumper
- AR** Left air guide, for E90/E91 LCI with Performance bumper
- AS** Left grille, for E90/E91 with standard bumper
- AT** Left grille, for E90/E91 LCI with standard bumper
- BA** Fan relay auxiliary cable (only for cars built before 3/07)
- BB** Insulation-piercing connector (2 x, only for cars built before 3/07)
- BC** RHD auxiliary cable, for RHD cars
- BD** Shrink hose (3 x), for RHD cars
- BE** Horn extension (E82/E88 cars only)
- BF** Retaining bracket (2 x, for E82/E88 cars only)
- BG** Rivet nut M6 (2 x, for E82/E88 cars only)
- BH** Hexagon screw with washer M6 x 15 mm (2 x, for E82/E88 cars only)

3. Preparatory work

| | ISTA No. |
|--|-----------------|
| Conduct a brief test | --- |
| Disconnect the negative pole of the battery | 12 00 ... |
| The following components must be removed first | |
| Front bumper trim | 51 11 156 |
| Power unit bottom guard, front | 51 47 490 |
| High-pressure jet of headlight cleaning system, left or right | 61 67 083 |
| Left headlight with support | 63 12 010 |
| Release front panel | 41 33 040 |
| Fan frame with electric fan (no longer required) | 17 11 035 |
| Wheel arch cover, front left | 51 71 038 |
| Cowl panel cover | 51 13 116 |
| Servo oil tank holder (no longer required) | --- |
| Release E-Box cover | 12 90 ... |
| Renew spark plugs (only for cars built before 3/09 or with more than 60,000 km/45,000 miles on the clock) | 12 12 011 |
| Also for cars with MSD80 | |
| Renew engine control unit | 12 14 550 |
| Also for cars E82/E88 | |
| Horn mounting plate (no longer required) | --- |
| Also for cars built before 3/07 | |
| Side footwell trim panel on right A pillar | 51 43 075 |
| Glovebox | 51 16 366 |

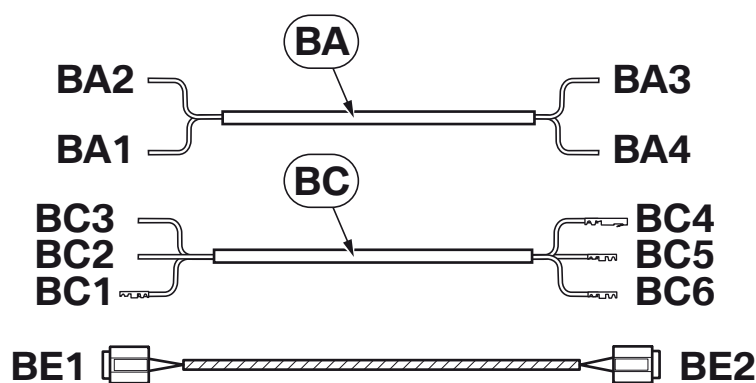
4. Connection diagram



090 1494 Z

| Item | Designation | Signal | Cable colour/ cross-section | Connection location in the car | Abbreviation/slot |
|------|---|----------------|--------------------------------|---|-------------------|
| A | Retrofit wiring harness | --- | --- | --- | --- |
| A1 | Eyelet, diameter 6 mm | Terminal 30 | RT 12.0 mm ² | To B+ post, rear right suspension strut | X2219 |
| A2 | Eyelet, diameter 6 mm | Terminal 31L<2 | BR 10.0 mm ² | To earth pin, right on suspension strut | X175 |
| A3 | Butt connector | Terminal 31 | BR 0.5 mm ² | LHD cars built before 3/07 only To branch BA2 LHD cars built after 3/07 only To cable of same colour from original fan relay in E-Box RHD cars only To branch BC3 | --- |
| A4 | Butt connector | Terminal 30g | RT/GN 0.5 mm ² | LHD cars built before 3/07 only To branch BA1 LHD cars built after 3/07 only To cable of same colour from original fan relay in E-Box RHD cars only To branch BC2 | --- |
| A5 | Socket contact | T_ELUE | SW/BL 0.5 mm ² | LHD cars only To DME control unit A6020 RHD cars only To branch BC1 | X60101 PIN 8 |
| A6 | Fuse holder 125 A (wrapped in retrofit wiring harness) | Terminal 30 | RT 12.0 mm ² | Behind right headlight | --- |
| A7 | Eyelet, diameter 6 mm | Terminal 30 | RT 12.0 mm ² | To fan relay K | X17278 |
| A8 | Eyelet, diameter 6 mm | Terminal 30 | RT 12.0 mm ² | To fan relay K | X17279 |
| A9 | SW 2-pin socket casing | --- | --- | To fan relay K | X1798 |
| A10 | SW 4-pin socket casing | --- | --- | To electric fan B | X18193 |

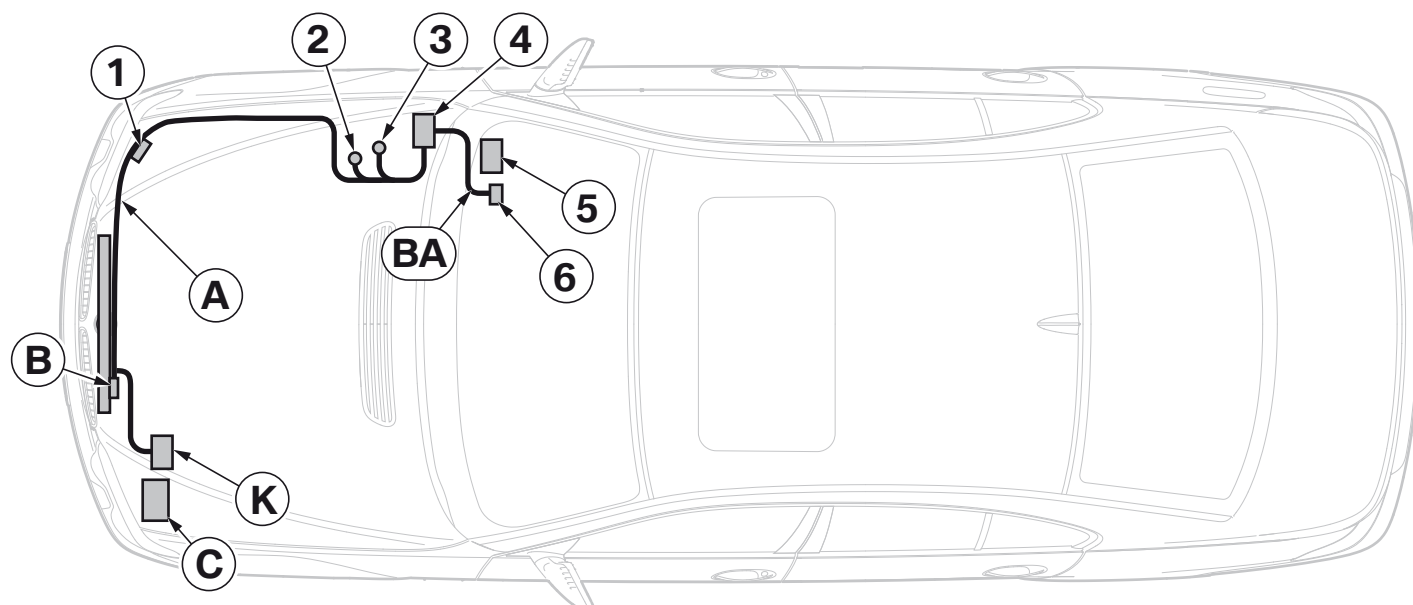
5. Auxiliary cable connection diagram



090 1505 Z

| Item | Designation | Signal | Cable colour/ cross-section | Connection location in the car | Abbreviation/slot |
|------|---------------------------|--------------|--------------------------------|--|-------------------|
| BA | Fan relay auxiliary cable | --- | --- | Cars built before 3/07 only | --- |
| BA1 | Open cable end | Terminal 30g | RT/GN 0.5 mm ² | LHD cars only To branch A4 RHD cars only To branch BC5 | --- |
| BA2 | Open cable end | Terminal 31 | BR 0.5 mm ² | LHD cars only To branch A3 RHD cars only To branch BC6 | --- |
| BA3 | Open cable end | Terminal 31 | BR 0.5 mm ² | With insulation-piercing connector BB to cable BR of the glovebox light | X18336 PIN 4 |
| BA4 | Open cable end | Terminal 30g | RT/GN 0.5 mm ² | With insulation-piercing connector BB to RT/GE cable of the glovebox light | X18336 PIN 1 |
| BC | RHD auxiliary cable | --- | --- | RHD cars only | --- |
| BC1 | Butt connector | T_ELUE | SW/BL 0.5 mm ² | To branch A5 | --- |
| BC2 | Open cable end | Terminal 30g | RT/GN 0.5 mm ² | To branch A4 | --- |
| BC3 | Open cable end | Terminal 31 | BR 0.5 mm ² | To branch A3 | --- |
| BC4 | Socket contact | T_ELUE | SW/BL 0.5 mm ² | To DME control unit A6020 | X60101 PIN 8 |
| BC5 | Butt connector | Terminal 30g | RT/GN 0.5 mm ² | RHD cars built before 3/07 only To branch BA1 RHD cars built after 3/07 only To cable of same colour from original fan relay in E-Box | --- |
| BC6 | Butt connector | Terminal 31 | BR 0.5 mm ² | RHD cars built before 3/07 only On branch BA2 RHD cars built after 3/07 only To cable of same colour from original fan relay in E-Box | --- |
| BE | Horn extension | --- | --- | E82/E88 cars only | --- |
| BE1 | SW 2-pin socket casing | --- | --- | To horn left | X3530 |
| BE2 | SW 2-pin pin housing | --- | --- | To original horn connector left | X3529 |

6. Installation and cabling diagram for LHD cars

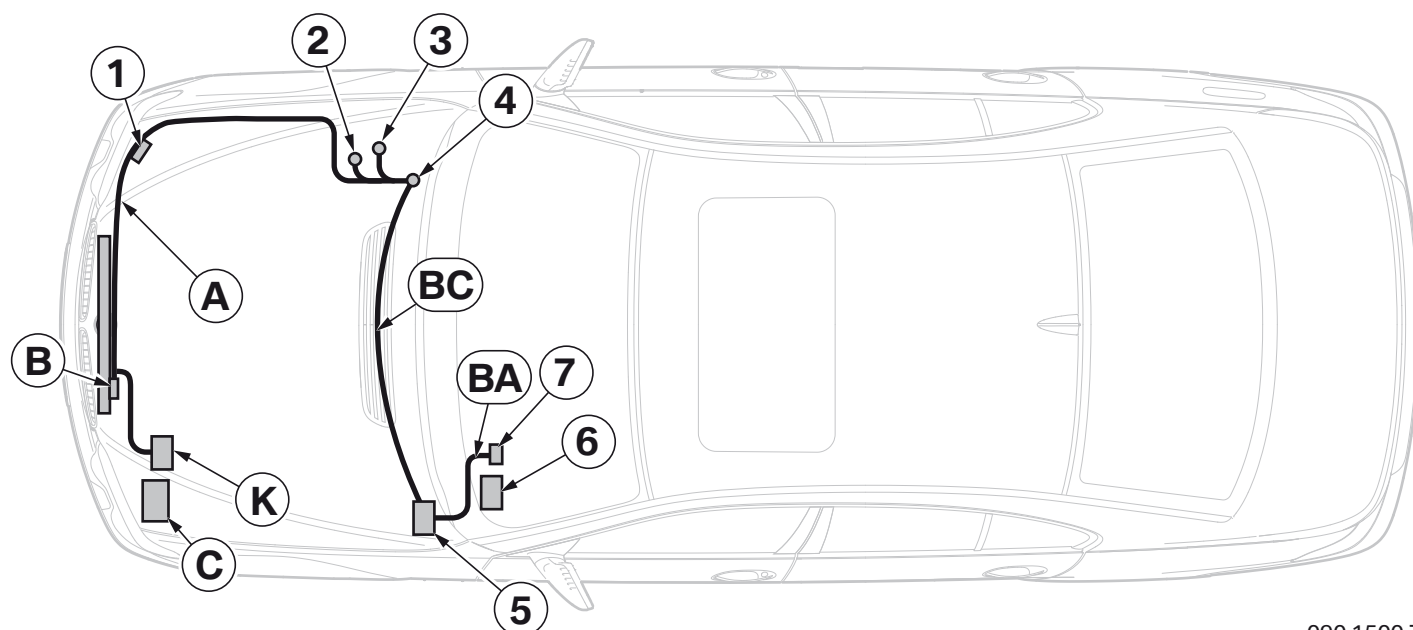


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- A** Retrofit wiring harness
- B** Electric fan, plug **X18193**
- C** Additional radiator
- K** Fan relay, plugs **X17278**, **X17279** and **X1798**
- BA** Fan relay auxiliary cable (only for cars built before 3/07)

- 1** Fuse holder **A6**
- 2** Strut tower earth support point **X175**
- 3** B+ post **X2219**
- 4** E-Box (DME control unit **A6020** and original fan relay)
- 5** Fuse holder front, fuse **F92**
- 6** Glovebox light **E42a** (only cars built before 3/07)

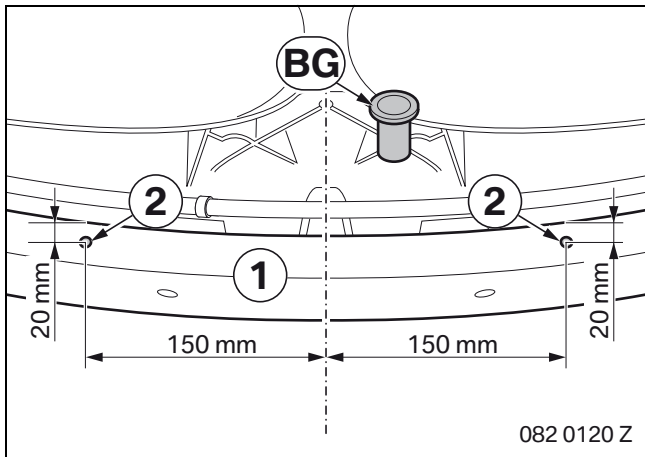
7. Installation and cabling diagram for RHD cars



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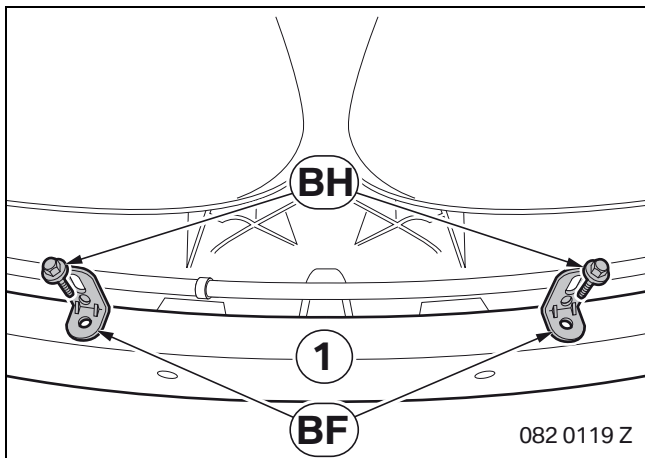
- A** Retrofit wiring harness
 - B** Electric fan, plug **X18193**
 - C** Additional radiator
 - K** Fan relay, plugs **X17278**, **X17279** and **X1798**
 - BA** Fan relay auxiliary cable (only for cars built before 3/07)
 - BC** RHD auxiliary cable
-
- 1** Fuse holder **A6**
 - 2** Strut tower earth support point **X175**
 - 3** B+ post **X2219**
 - 4** Retrofit wiring harness connector **A** and RHD auxiliary cable **BC**
 - 5** E-Box (DME control unit **A6020** and original fan relay)
 - 6** Fuse holder front, fuse **F92**
 - 7** Glovebox light **E42a** (only cars built before 3/07)

8. Converting the horn (E82/E88 cars only)

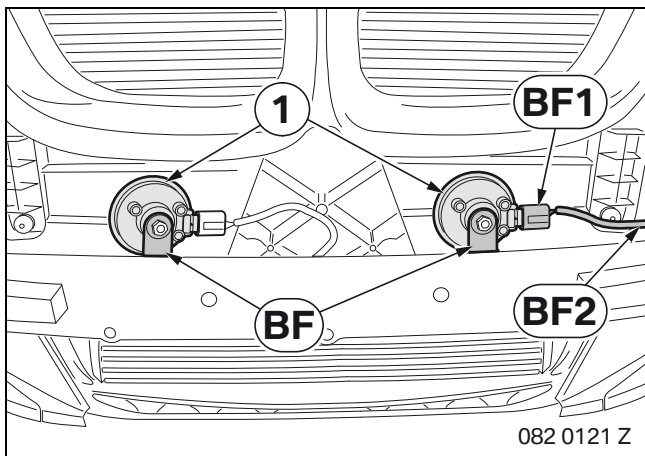


Make drill holes (2), diameter 9.1 mm, as per the dimensions above on the bumper support (1).

Rivet rivet nuts **BG** into bumper support (1).



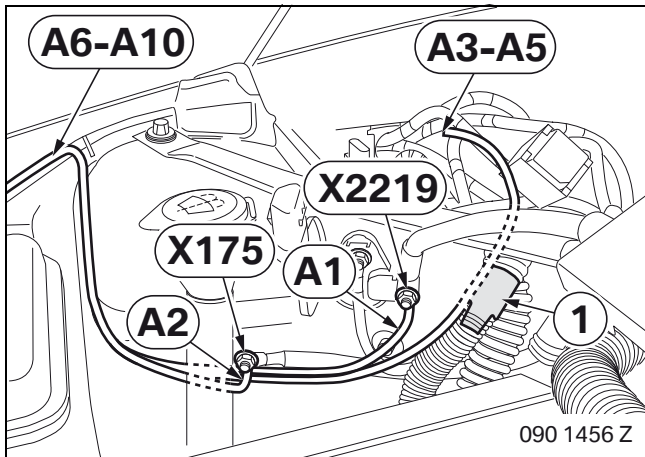
Screw retaining bracket **F** using hexagon screws **BH** to bumper support (1).



Screw horns (1) using original nuts and washers to retaining bracket **BF**.

Route branch **BE1** to the left horn and branch **BE2** to the left original horn connector and connect.

9. Installing the retrofit wiring harness on LHD cars

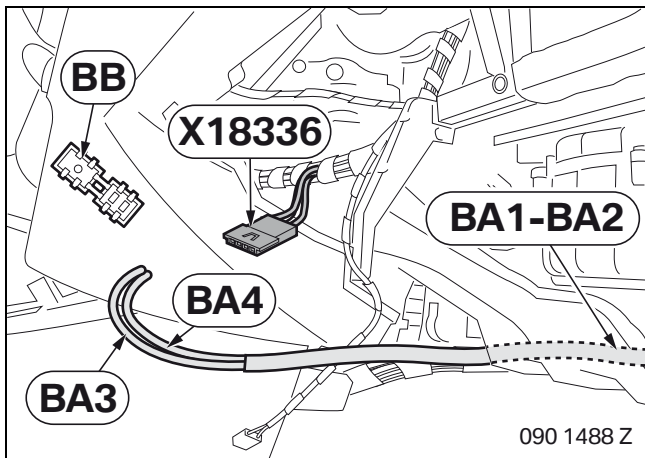


Screw branch **A1** onto B+ support point **X2219** from the top or bottom.

Screw branch **A2** onto earth pins **X175**.

Route branches **A6-A10** to the right-hand rear side panel.

Route branches **A3-A5** through the rubber grommet (1) into the E-Box.

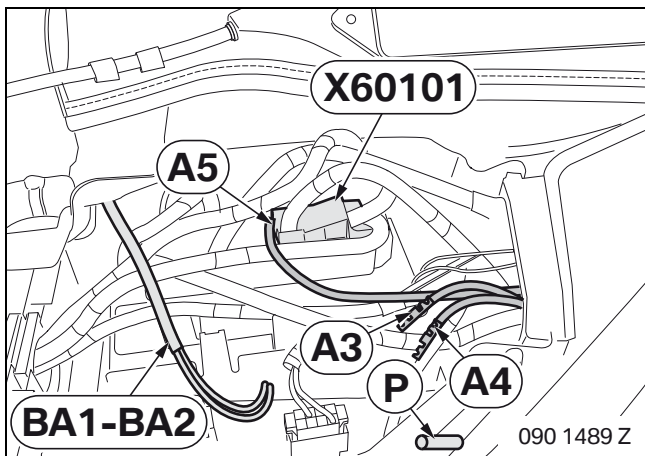


Cars built before 3/07 only

Connect branch **BA3** and **BA4** using insulation-piercing connector **BB** as follows to the cables of plug **X18336**, SW 4-pin, of the glovebox light:

- Branch **BA3**, BR cable, to PIN 4 (BR cable)
- Branch **BA4**, RT/GN cable, to cable in PIN 1 (RT/GE cable)

Route branches **BA1** and **BA2** into the E-Box.



Push shrink hoses **P** over branches **A3**, BR cable, and **A4**, RT/GN cable.

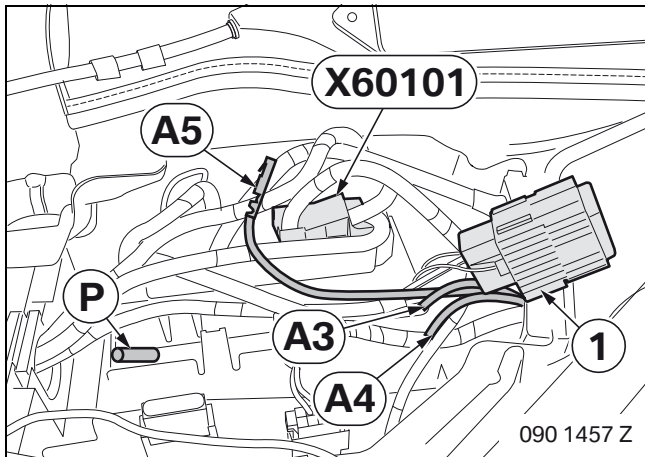
Crimp branches **BA1** and **BA2** to the same colours of branches **A3** and **A4**.

Insulate the connections with shrink hoses **P**.

Disconnect SW/BL cable from PIN 8 of plug **X60101** (GR 26-pin) on the DME control unit, insulate it and tie it back.

Connect branch **A5**, SW/BL cable, to PIN 8 of plug **X60101**.

9. Installing the retrofit wiring harness on LHD cars



Cars built after 3/07 only

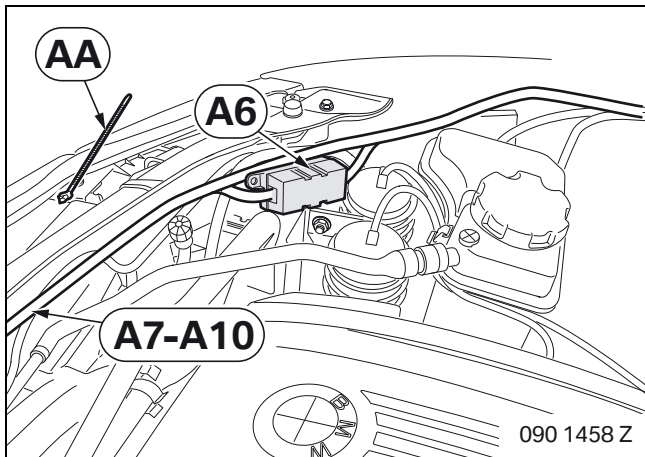
Push shrink hoses **P** over branches **A3**, BR cable, and **A4**, RT/GN cable.

Disconnect BR and RT/GN cables from fan relay (1) and crimp onto the same-coloured branches **A3** and **A4**.

Insulate the connections with shrink hoses **P**.

Disconnect SW/BL cable from PIN 8 of plug **X60101** (GR 26-pin) on the DME control unit, insulate it and tie it back.

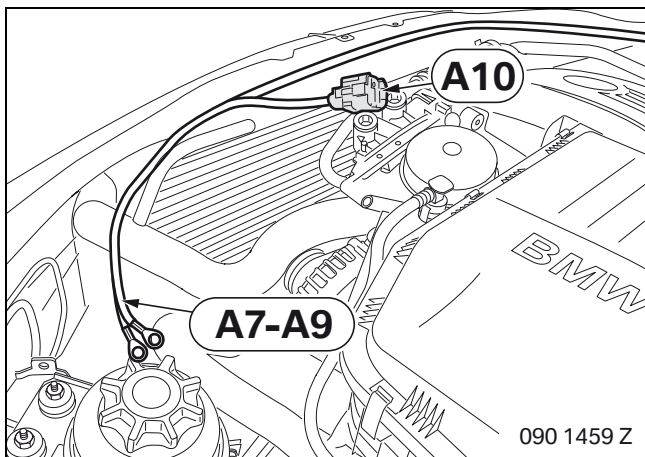
Connect branch **A5**, SW/BL cable, to PIN 8 of plug **X60101**.



All LHD cars

Secure fuse holder **A6** onto the standard wiring harness using cable ties **AA** behind the right headlight.

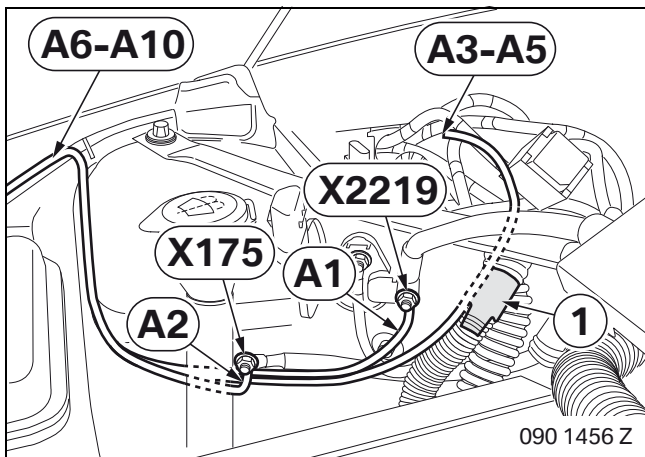
Route branches **A7-A10** along the standard wiring harness to the left-hand side of the car.



Route branches **A7-A10** along the front panel.

Tie back the original plug of the electric fan in the area of the right headlight.

10. Installing the retrofit wiring harness on RHD cars

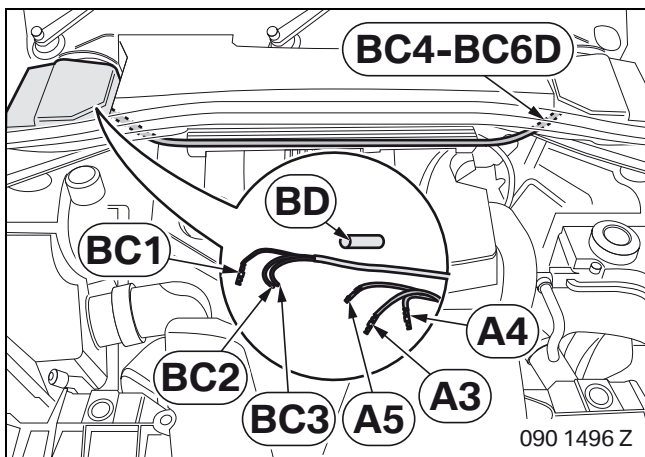


Screw branch **A1** on B+ support point **X2219** from the top or bottom.

Screw branch **A2** onto earth pins **X175**.

Route branches **A6–A10** to the right-hand rear side panel.

Route branches **A3–A5** through the rubber grommet (1) into the hydraulic unit.



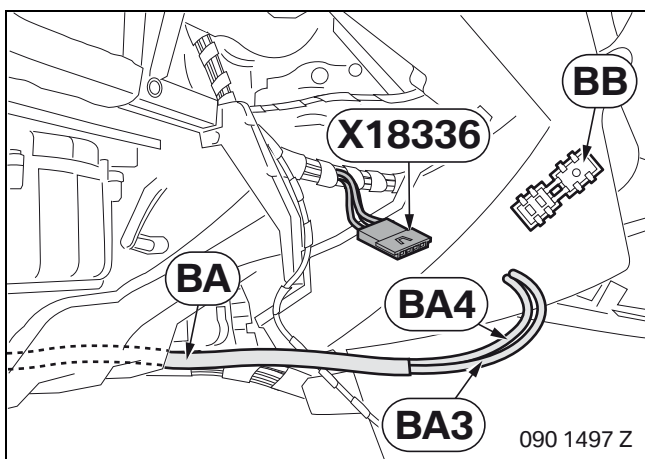
Disconnect the contact from branch **A5**.

Push shrink hoses **BD** over branches **A3–A5**.

Crimp branches **BC1–BC3** to the same colours on branches **A3–A5**.

Insulate the connections with shrink hoses **BD**.

Route branches **BC4–BC6** on the left-hand side into the E-Box.

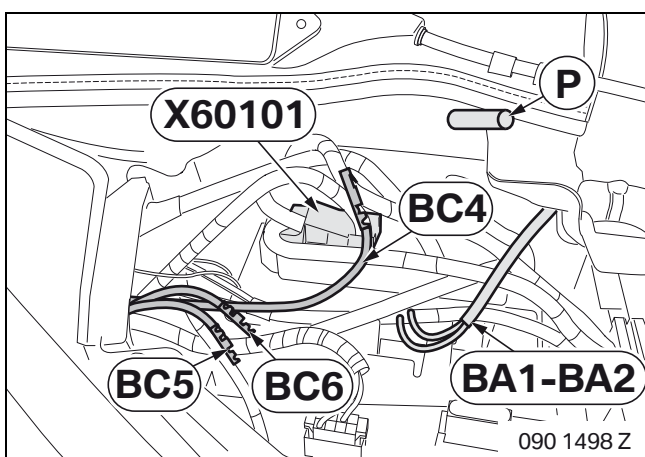


Cars built before 3/07 only

Connect branch **BA3** and **BA4** using insulation-piercing connector **BB** as follows to the cables of plug **X18336**, SW 4-pin, of the glovebox light:

- Branch **BA3**, BR cable, to PIN 4 (BR cable)
- Branch **BA4**, RT/GN cable, to cable in PIN 1 (RT/GE cable)

Route branches **BA1** and **BA2** into the E-Box.



Push shrink hoses **P** over branches **BC5**, RT/GN cable, and **BC6**, BR cable.

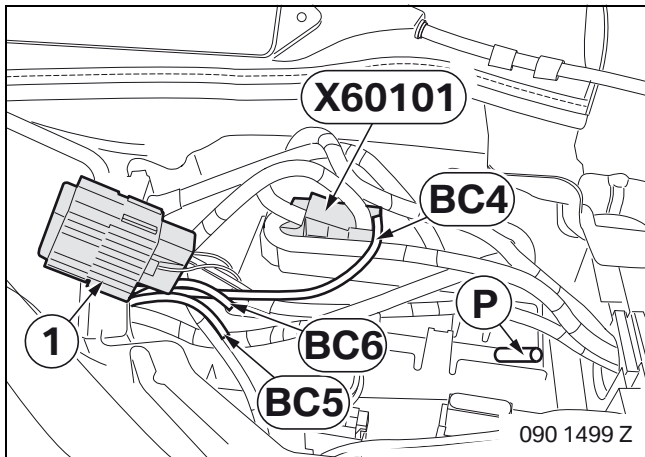
Crimp branches **BA1** and **BA2** to the same colours of branches **BC5** and **BC6**.

Insulate the connections with shrink hoses **P**.

Disconnect SW/BL cable from PIN 8 of plug **X60101** (GR 26-pin) on the DME control unit, insulate it and tie it back.

Connect branch **A5**, SW/BL cable, to PIN 8 of plug **X60101**.

10. Installing the retrofit wiring harness on RHD cars



Cars built after 3/07 only

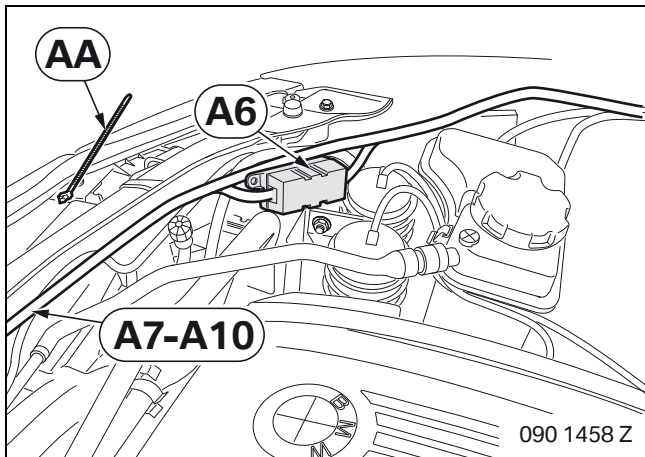
Push shrink hoses **P** over branches **BC5**, RT/GN cable, and **BC6**, BR cable.

Disconnect BR and RT/GN cables from fan relay (1) and crimp onto the same-coloured branches **BC5** and **BC6**.

Insulate the connections with shrink hoses **P**.

Disconnect SW/BL cable from PIN 8 of plug **X60101** (GR 26-pin) on the DME control unit, insulate it and tie it back.

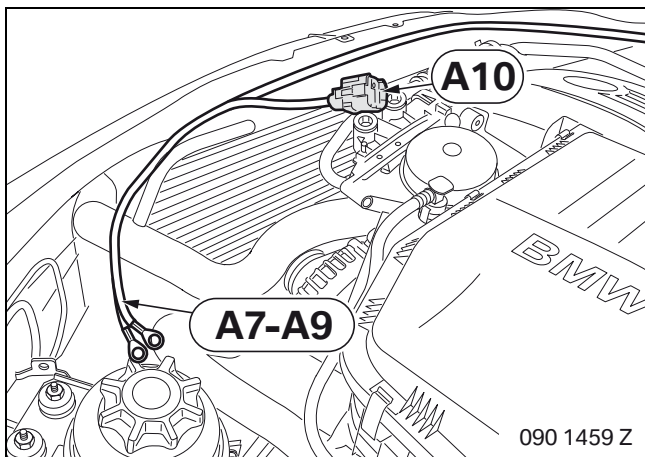
Connect branch **BC4**, SW/BL cable, to PIN 8 of plug **X60101**.



All RHD cars

Secure fuse holder **A6** onto the standard wiring harness using cable ties **AA** behind the right headlight.

Route branches **A7-A10** along the standard wiring harness to the left-hand side of the car.

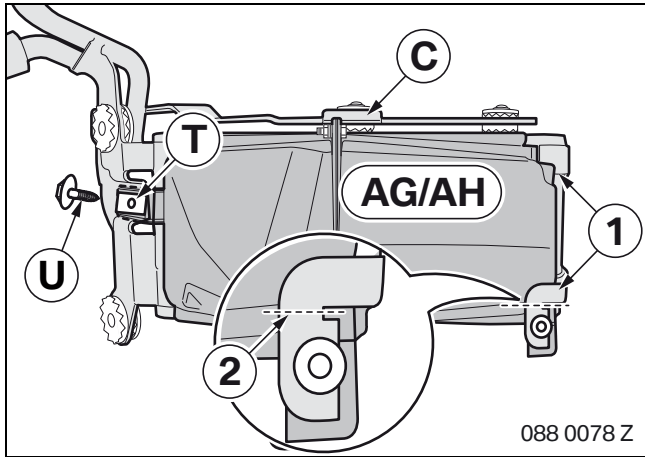


Route branches **A7-A10** along the front panel.

Tie back the original plug of the electric fan in the area of the right headlight.

11. Installing the additional radiator and air guides

- ▶ Installation of air guides is shown by way of example on E93 with M bumper.
Proceed similarly in all other cars and variants. ◀



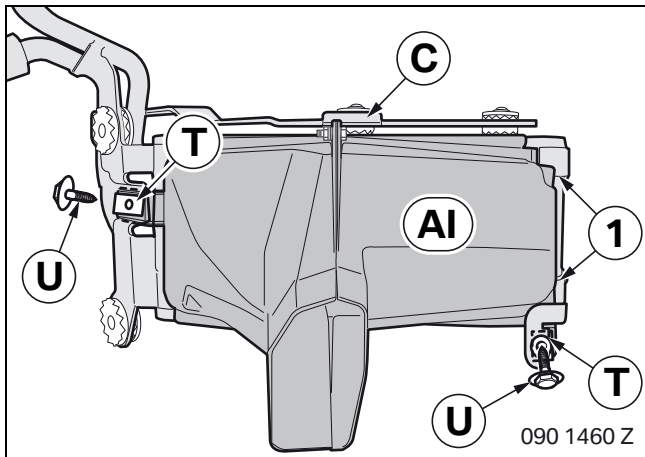
E82/E88 cars only

Disconnect lower screw-on lug (2) on additional radiator **C** at the edge.

Insert sheet metal nut **T** in rear air guide **AG/AH**.

- ▶ Make sure that rear air guide **AG/AH** is inserted in the guides (1) of additional radiator **C**. ◀

Put rear air guide **AG/AH** onto additional radiator **C** and screw on with hexagon sheet metal screw **U**.

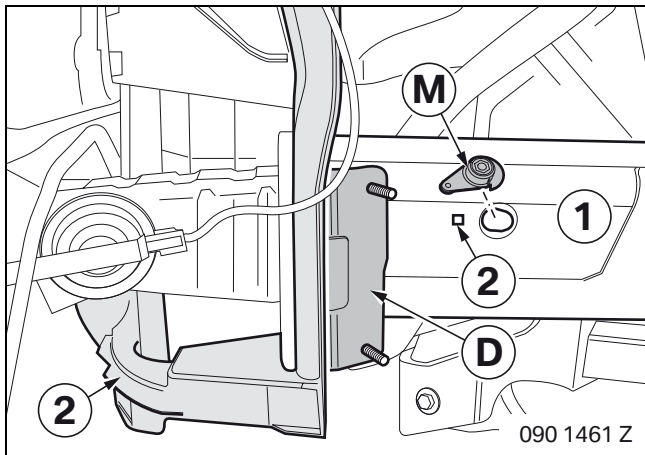


E90/E91/E92/E93 cars only

Insert sheet metal nuts **T** in rear air guide **AI**.

- ▶ Make sure that rear air guide **AI** is inserted in the guides (1) of additional radiator **C**. ◀

Put rear air guide **AI** onto additional radiator **C** and screw on with hexagon sheet metal screws **U**.

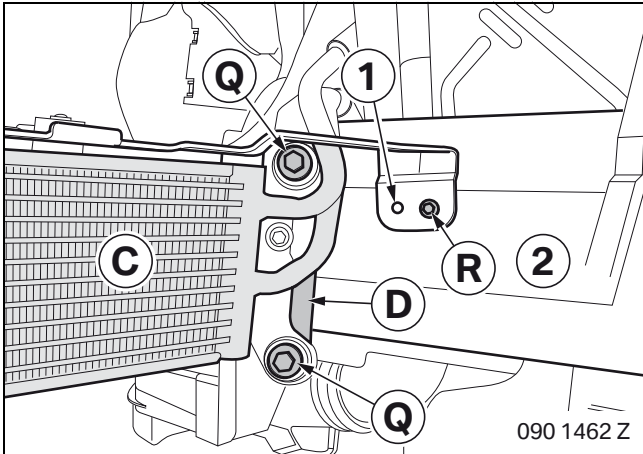


All cars

Swap the mounting plate between the side member (1) and front panel (2) for additional radiator holder **D**.

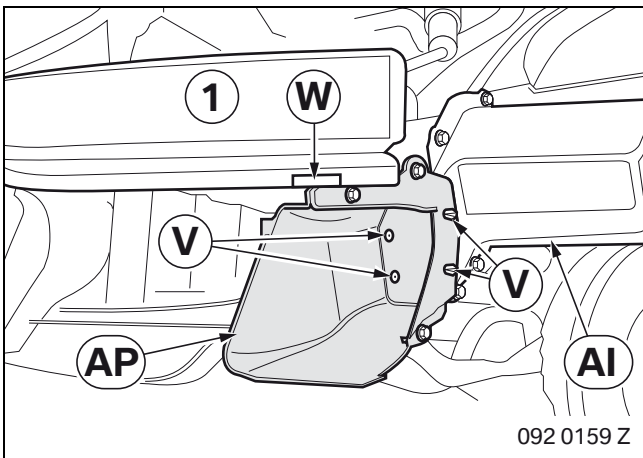
Insert thread plate **M** into side member (1), rotate it around 90° and engage it in the centring drill hole (2).

11. Installing the additional radiator and air guides



Place additional radiator **C** on holder **D** and insert centring pin (1) in side member (2).

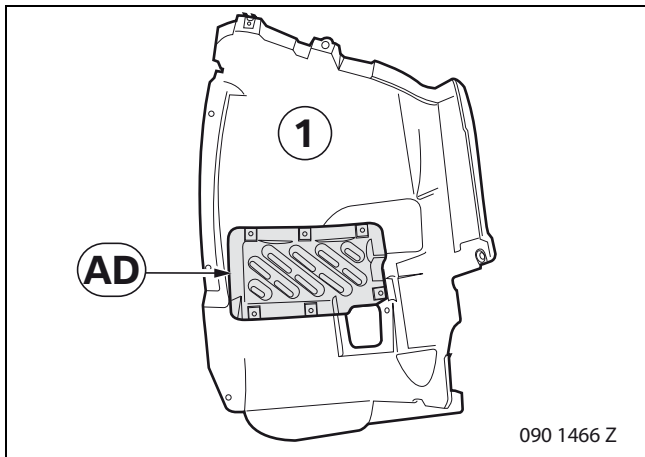
Screw additional radiator **C** onto holder **D** using hexagon nuts **Q** and onto side member (2) using hexagon screw **R**.



Place front air guide **AP** on rear air guide **AI** and secure from the inside using expanding rivets **V**.

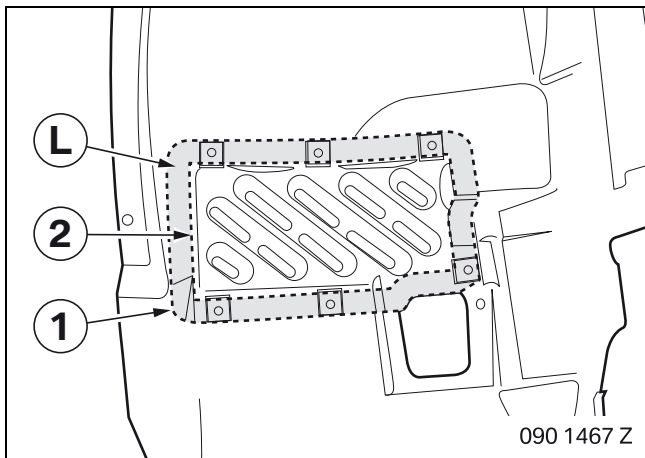
Place sealing strips **W** on bumper trim support (1).

12. Modifying the wheel arch cover

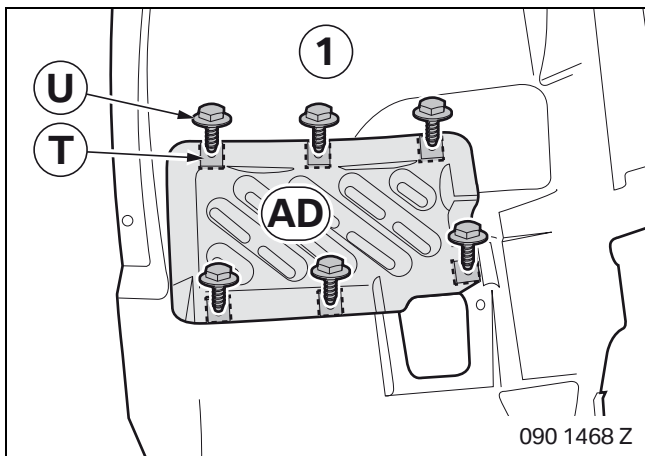


Place radiator grille **AD** from outside onto wheel arch cover (1).

Transfer the contours and holes of radiator grille **AD**.
Make drill holes of diameter 5 mm.



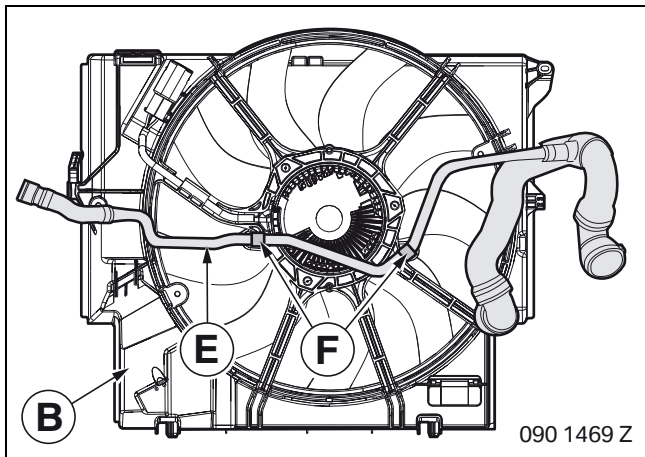
Mark cut-out (1) 20 mm inside contour (2) of radiator grille **L** and cut out.



Push sheet metal nuts **T** onto the wheel arch cover (1).

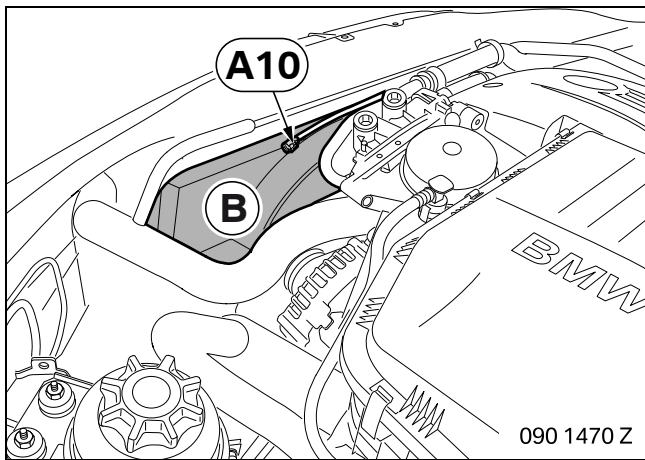
Screw on radiator grille **AD** using hexagon sheet metal screws **U**.

13. Installing water hoses

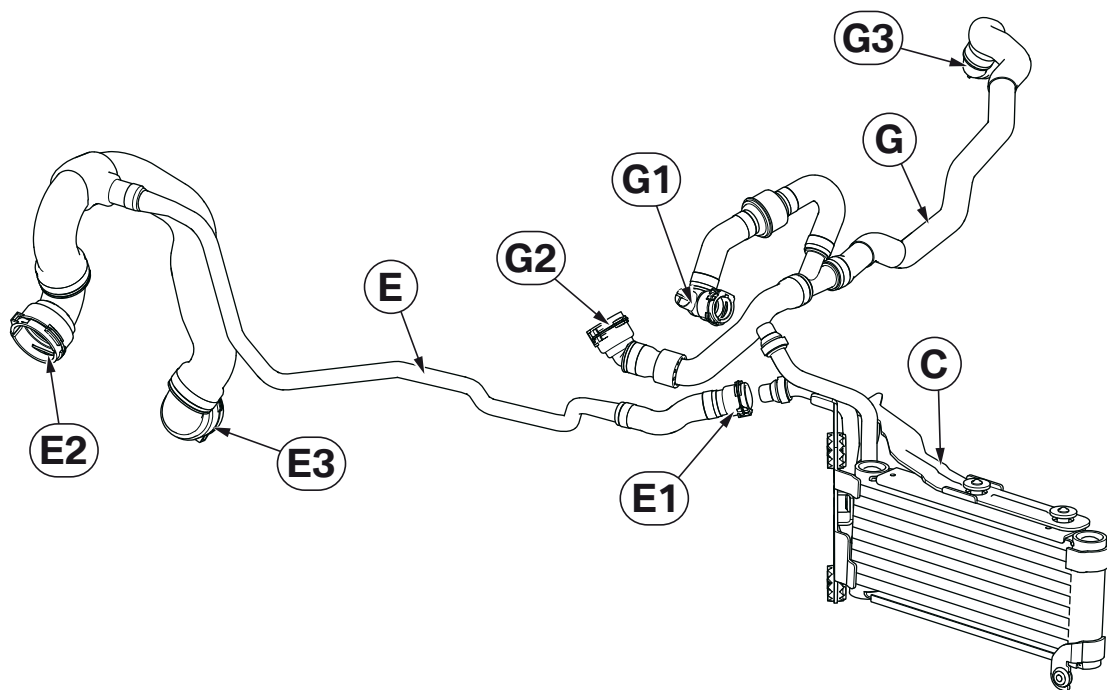


▶ If there is no hose holder already mounted on return hose **E**, use hose holder **F**. ◀

Clip return hose **E** into electric fan **B** as shown.



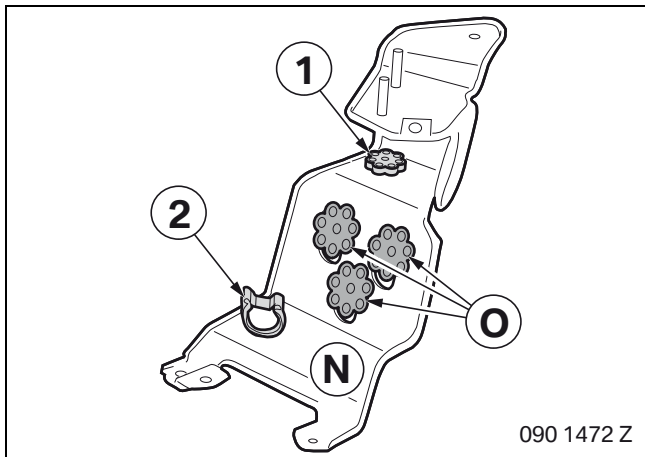
Install electric fan **B** (see ISTA 17 11 035) and connect branch **A10**.



Incorporate return hose **E** and supply hose **G** into the cooling circuit as follows:

- **E1** and **G1** to additional radiator **C**
- **E2** and **G2** to engine radiator
- **E3** to engine block
- **G3** to heating heat exchanger on the bulkhead

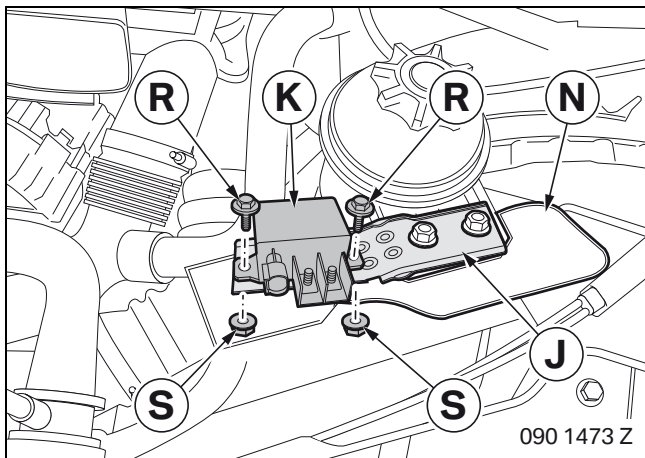
14. Installing the fan relay



Transfer existing rubber bearing (1) and hose holder (2) of the removed servo oil tank holder to servo oil tank holder **N**.

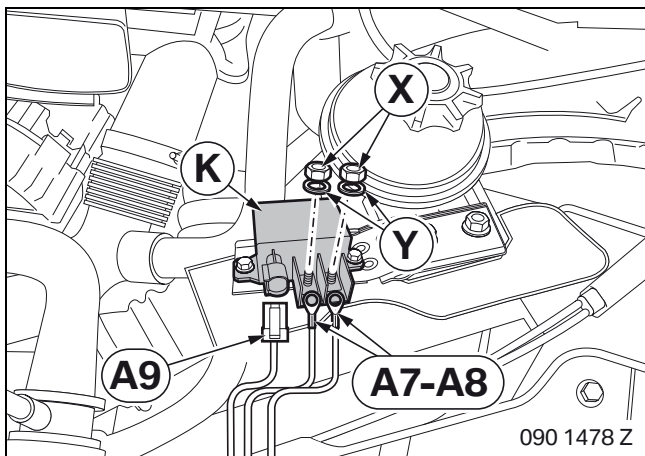
Insert rubber bearing **O** in servo oil tank holder **N**.

Install servo oil tank holder **N** using the original nuts and original screw.



Using the original nuts, screw fan relay holder **J** onto servo oil tank holder **N**.

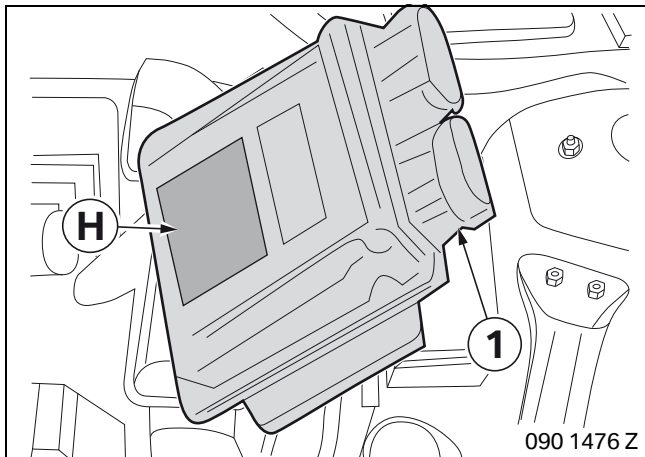
Use hexagon screws **R** and hexagon nuts with collar **S** to secure fan relay **K** to fan relay holder **J**.



Connect branches **A7-A8** using hexagon nuts **X** and spring circlips **Y** to fan relay **K**.

Connect branch **A9** to fan relay **K**.

15. Affixing the sticker



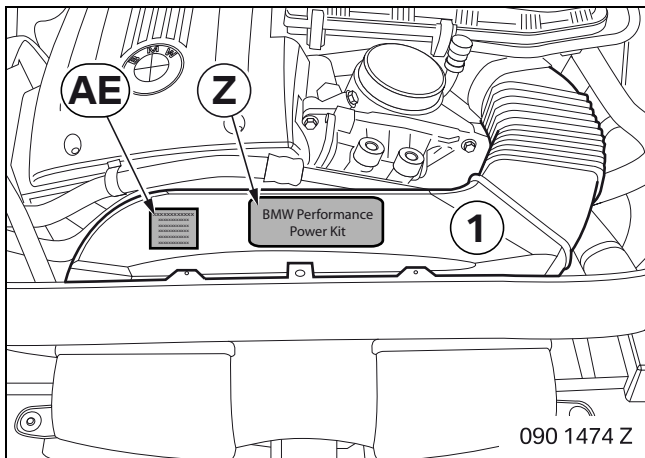
▶ Clean the surface to be glued. ◀

Release engine control unit (1) without disconnecting the plug (see ISTA 12 14 550).

Enter the dealership and date on the engine control unit sticker **H**.

Stick engine control unit sticker **H** onto the engine control unit (1).

Install the engine control unit (1).

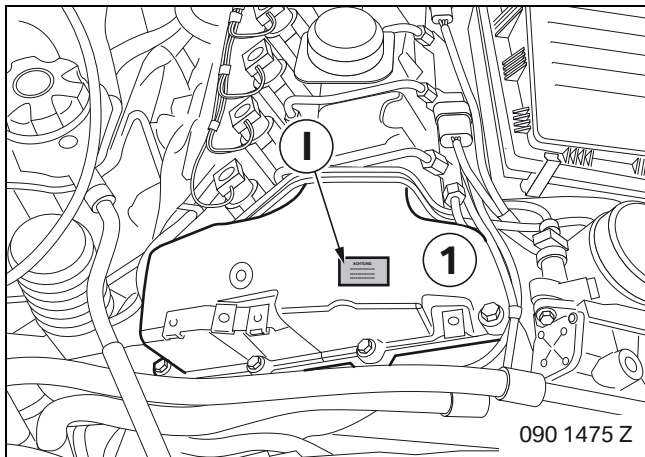


▶ Clean all the surfaces to be glued. ◀

Remove the existing information label regarding aluminium screws from the air guide (1) (it is no longer needed).

Stick emblem **Z** in the middle of the air guide (1).

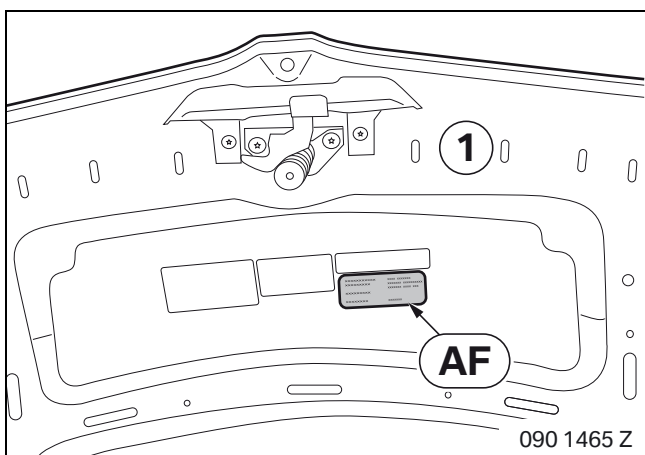
Stick the new information label regarding aluminium screws **AE** on left next to emblem **Z**.



Cars built before 3/09 only

▶ Clean the surface to be glued. ◀

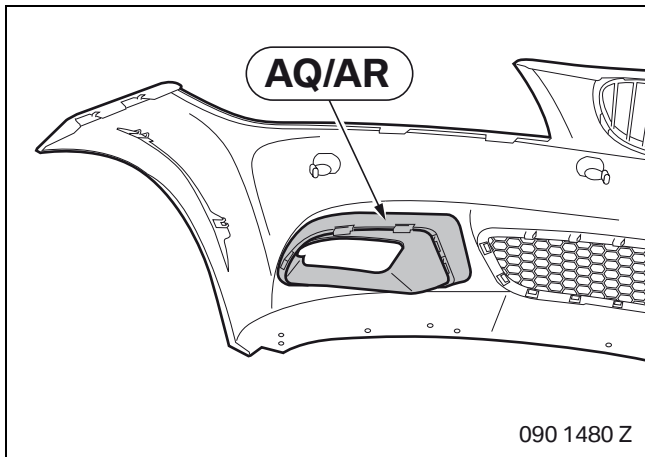
Stick service sticker **I** on cylinder head cover (1).



For US cars only

Stick ARB EO# label **AF** onto the bonnet (1) as shown.

16. Modifying the front bumper trims

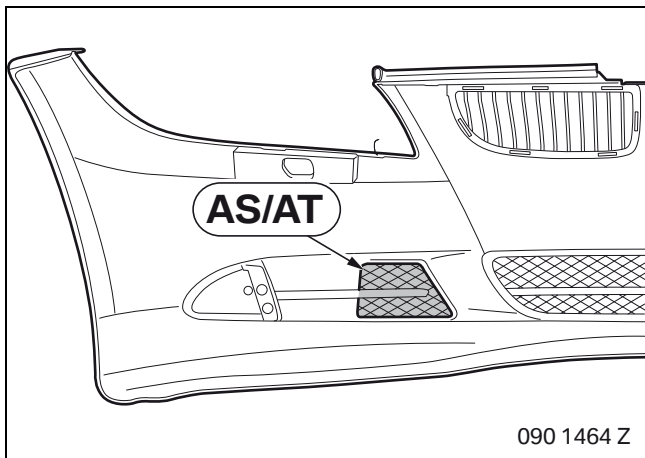


E82/E88 and E90/E91 LCI cars with Performance bumper only

Swap original left air guide for left air guide **AQ/AR**.

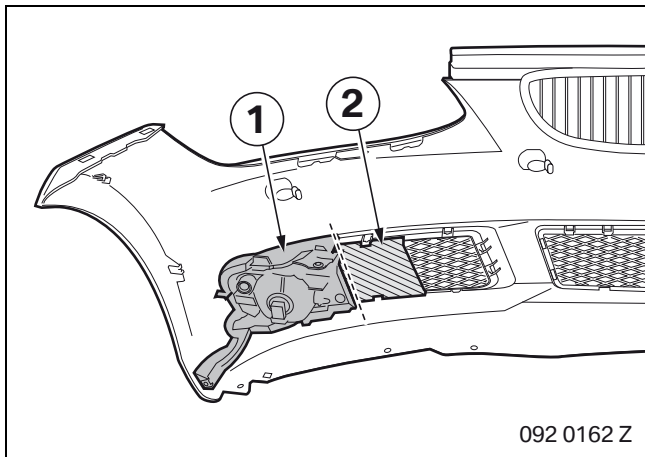
E82/E88 cars with standard or M bumper only

No modification necessary.



E90/E91 and E90/E91 LCI cars with standard bumper only

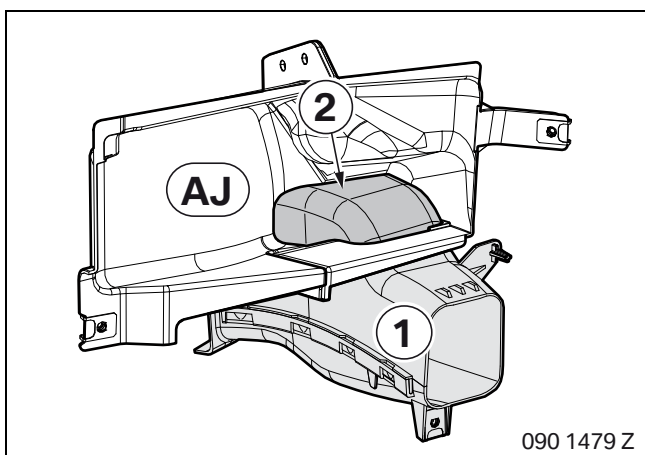
Swap original left grille for left grille **AS/AT**.



E90/E91 cars with M bumper and E92/E93 cars with standard bumper only

Remove fog light holder (1) and disconnect marked area (2).

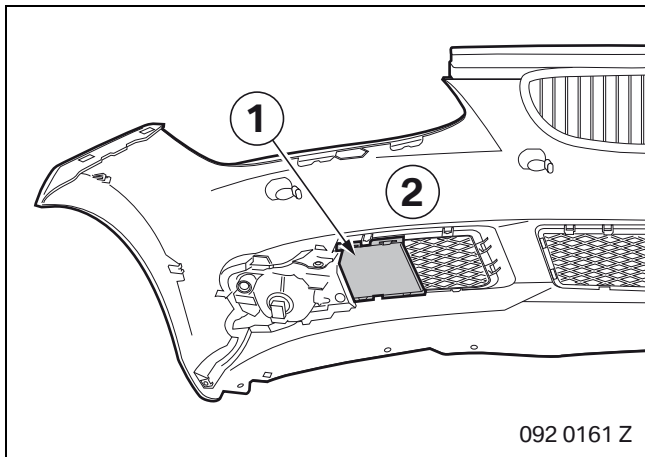
Install fog light holder (1).



E90/E91 LCI cars with M bumper only

Place left brake air duct (1) against air guide **AJ** as shown, transfer inner contour (2) and cut out.

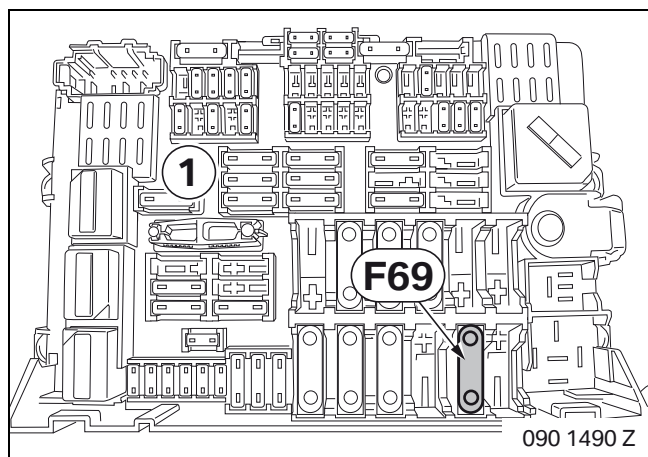
16. Modifying the front bumper trims



E92/E93 cars with M bumper only

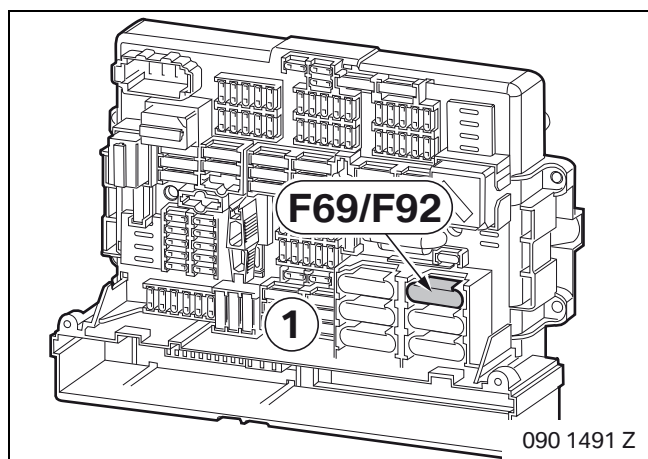
Unclip left cover (1) behind grille from bumper (2) (it is no longer needed).

17. Concluding work



Cars built before 3/07 only

Remove fuse **F69** from front fuse holder (1) (it is no longer needed).



Cars built between 3/07 and 9/07 only

Remove fuse **F69** from front fuse holder (1) (it is no longer needed).

Cars built after 9/07 only

Remove fuse **F92** from front fuse holder (1) (it is no longer needed).


17. Concluding work

The retrofit system requires coding.

- Connect the battery.
- Fill and bleed the coolant system as directed and check the coolant system for leaks (see ISTA 17 00 005).


Requesting the release code

- Remove the release code certificate **L** from the red envelope.
- Log into the ASAP portal.
- On the “Service/Technology” page, open the “Sweeping Technologies” menu and menu item “Request Tuning Kit FSC”.
- In the “Chassis number” field, enter the last seven digits of the chassis number.
- In the “SN” field, enter the serial number and in the “Key” field enter the alphanumeric combination from the release code certificate.


 Be aware that your entries are case-sensitive.
If you enter the data incorrectly 10 times, the certificate will be blocked. ◀

- Then click the “Request” button. Once the release code has been generated, you will automatically be forwarded to the “Download release codes” area.
- Store the release code on a suitable medium and keep it handy for the programming process.

Programming/coding

 The retrofit must be carried out with ISSS (use the latest software version!) ◀

- Connect the car with the ISSS using ICOM. Vehicle identification begins automatically.
- Confirm the control unit replacement with “No”.
- After identification, switch to the “Vehicle” menu and then select the tab “Conversions”.
- Select the conversion performed and click “Determine action plan” below.
- Select “Accept action plan”.
- Then follow the instructions.
- After programming, carry out a vehicle test and observe the instructions in the follow-on work list.

 If the action “Activate DME/DDE” should appear in the concluding report, always change the terminals. After changing the terminals, continue with the standard diagnostic process (return to the vehicle test) and delete any error memory entries. You must ensure that no error memory entries are still present. ◀

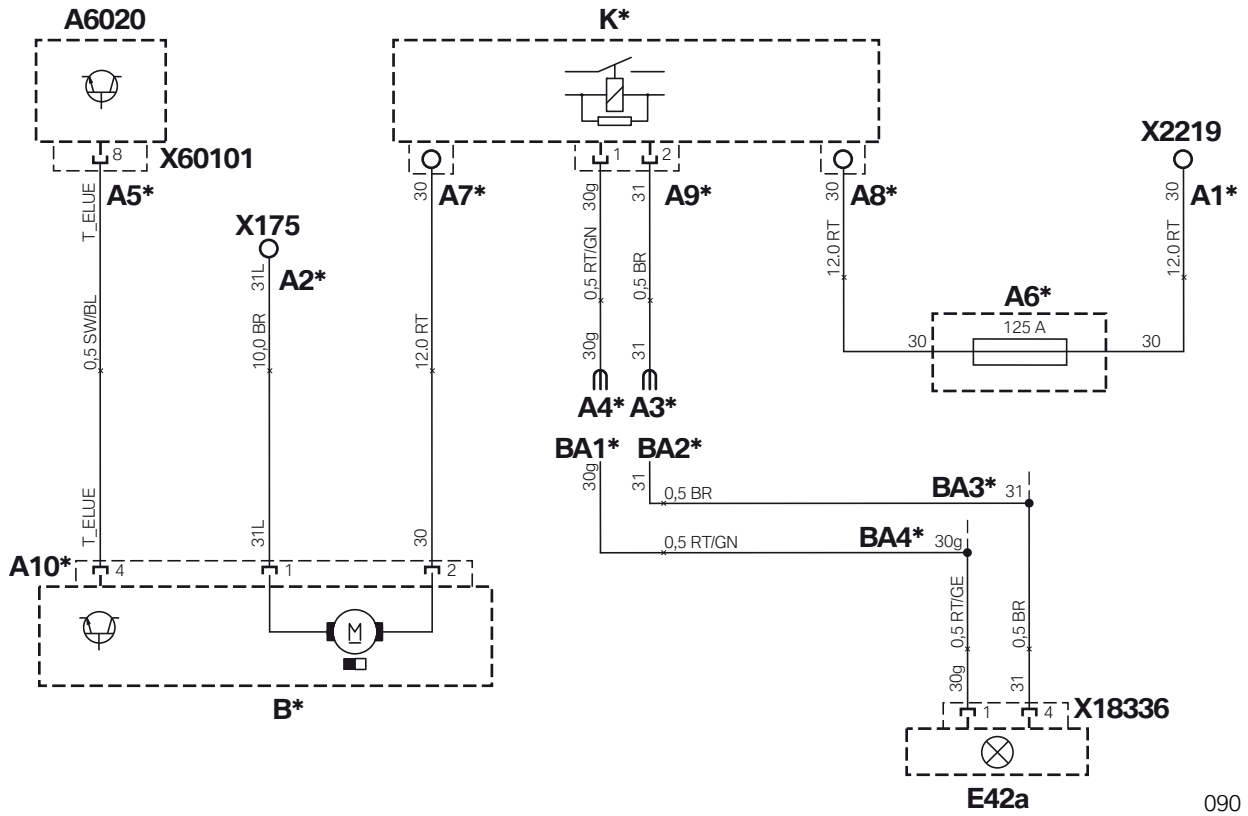
- Re-assemble the car.

Workshop certificate

Print out the “Workshop certificate” section at the end of the installation instructions, fill it in and give it to the customer.

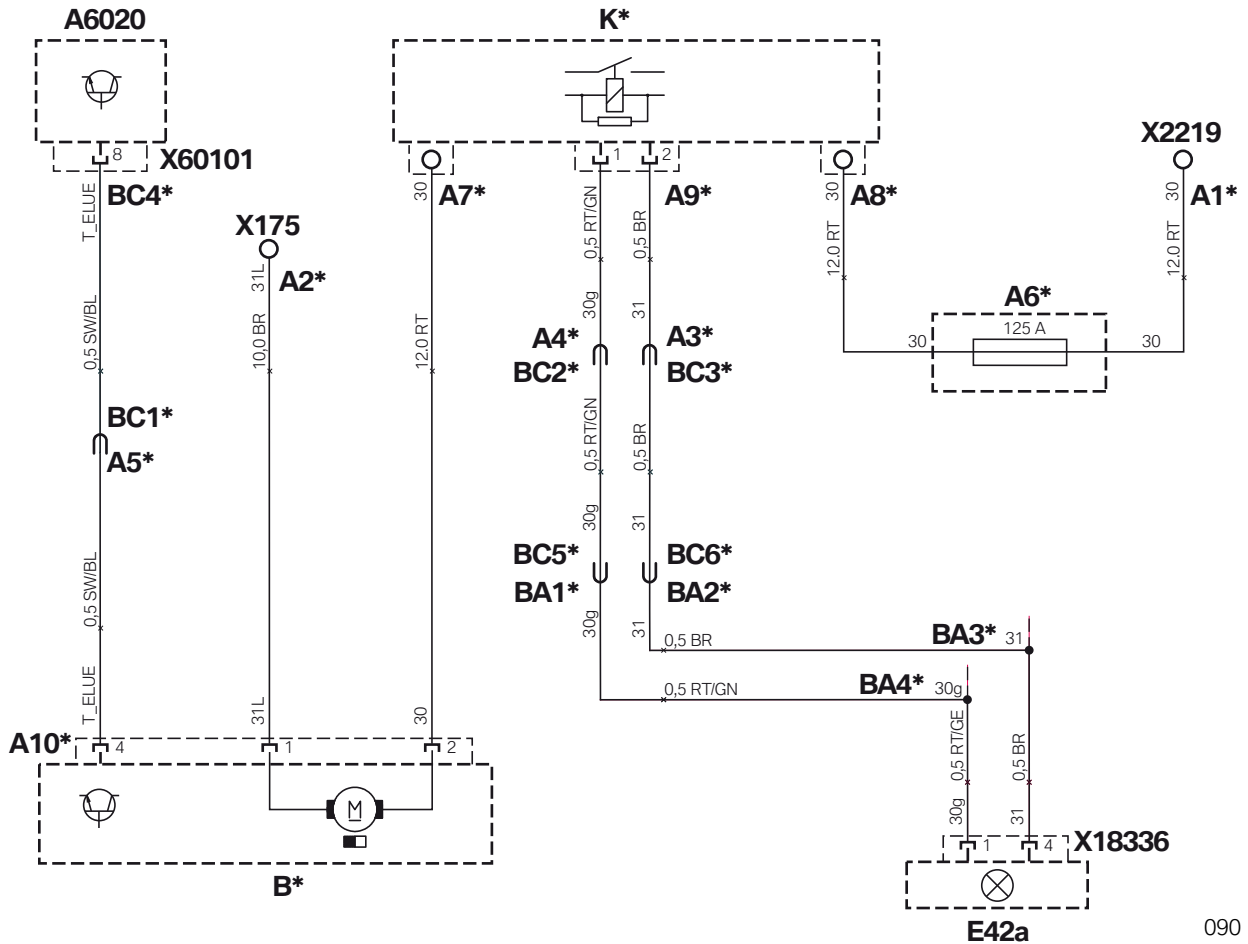
18. System circuit diagram

LHD cars only



090 1492 Z

RHD cars only



090 1501 Z

18. System circuit diagram

Legend

- A1*** Eyelet, on B+ post **X2219**
- A2*** Ring eyelet, on earth pin **X175**
- A3*** Butt connector, on the cable of the original fan relay (cars built after 3/07 only) or on branch **BA2*** (cars built before 3/07 only) or on branch **BC3*** (RHD cars only)
- A4*** Butt connector, on the cable of the original fan relay (cars built after 3/07 only) or on branch **BA1*** (cars built before 3/07 only) or on branch **BC2*** (RHD cars only)
- A5*** Socket contact on DME control unit **A6020**, plug **X60101**, GR 26-pin or on branch **BC1*** (RHD cars only)
- A6*** Fuse 125 A
- A7*** Eyelet, on fan relay **K***
- A8*** Eyelet, on fan relay **K***
- A9*** SW 2-pin socket casing, on fan relay **K***
- A10*** SW 4-pin socket casing, on electric fan **B***
-
- BA3*** Cable with insulation-piercing connector on glovebox light **E42a**, plug **X18336**, SW 4-pin (cars built before 3/07 only)
- BA4*** Cable with insulation-piercing connector on glovebox light **E42a**, plug **X18336**, SW 4-pin (cars built before 3/07 only)
-
- BC4*** Socket contact on DME control unit **A6020**, plug **X60101**, GR 26-pin (RHD cars only)
- BC5*** Butt connector on the cable of the original fan relay or on branch **BA1*** (RHD cars only)
- BC6*** Butt connector on the cable of the original fan relay or on branch **BA2*** (RHD cars only)

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

Cable colours

| | | | | | |
|----|-------|----|-------|----|-------|
| BL | Blue | GN | Green | RT | Red |
| BR | Brown | GR | Grey | SW | Black |

Workshop certificate

BMW Performance Power Kit

This is to confirm that the BMW Performance Power Kit
11 12 2 157 663 or
11 12 2 157 664
has been completely installed on the car identified below.

Specifically, the following components have been modified and/or retrofitted:

1. Additional radiator with holder
2. Air guides on additional radiator
3. Cooling water supply hose
4. Cooling water return hose
5. Electric fan
6. Fan relay with holder
7. Electric fan wiring harness with 125 A fuse
8. Spark plugs (only for cars built before 3/09 or with more than 60,000 km/45,000 miles on the clock)

Car type: BMW 135i (E82/E88)
 BMW 335i (E90/E91/E92/E93)

Vehicle identification no.:

Vehicle owner
Name and address:

.....

.....

.....

.....

.....
Place, date

.....
Signature of person responsible

Dealership (company name/stamp)