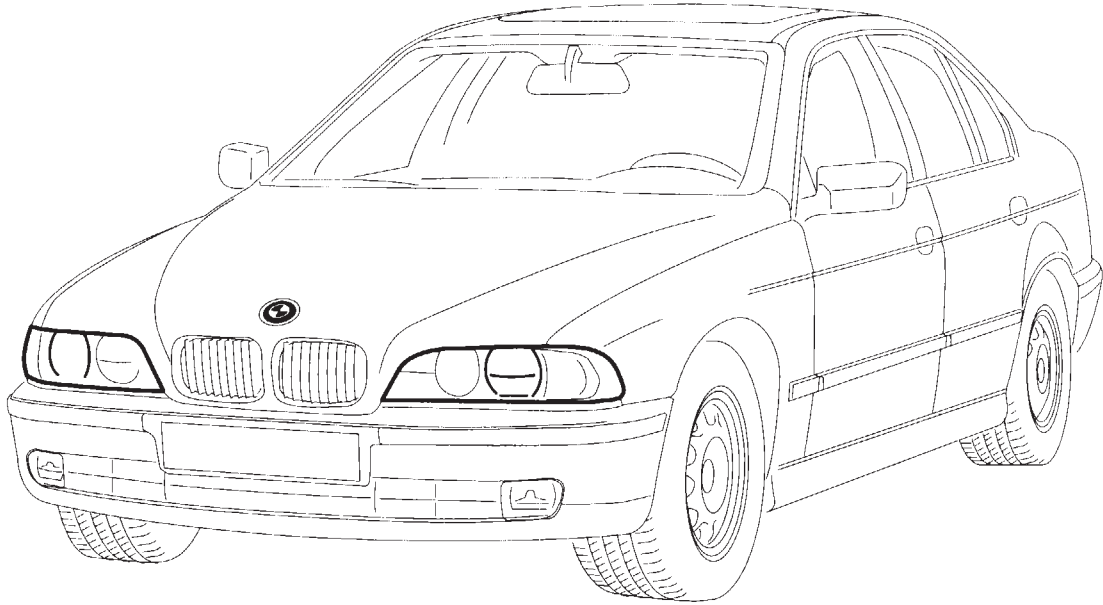




Zubehör - Einbauanleitung



F 39 67 005 M

Accessories – Installation Instruction

Manual headlight vertical-aim control
BMW 5 Series (E39)

Manual headlight vertical-aim control BMW 5 Series (E39)

(Only for use in the BMW trading organisation).
Fitting time approx. 3.5 hours, which can vary according to the condition and fittings of the vehicle.
Electrical knowledge is required.

Note

The lead-through grommet on the bulkhead must be sealed if necessary with silicone after threading through the supplementary wiring harness.
When the headlights are being dismantled, care must be taken to see that the paint on the upper side of the bumper is not damaged.

Required tools and auxiliary materials

3/8 inch socket-wrench insert SW 8 mm, 10 mm
3/8 inch reversible ratchet
3/8 inch extension
Open-ended spanner SW 13 mm
Flat-tip screwdriver
Phillips screwdriver
TORX screwdriver T10, T20

Contents

Section

1. Necessary preparatory work on the vehicle
2. Connection overview of the supplementary wiring harness
3. Alter the headlight unit

4. Install supplementary wiring harness
5. Coding

1. Necessary preparatory work on the vehicle

1. Print out error memory.
2. Disconnect vehicle battery.
3. Remove both front headlights.
4. Remove footwell panelling front left.
5. Remove oddments tray and trim panel under the instrument panel on the left.
6. Remove relay bracket left under instrument panel.
7. Remove microfilter with housing in engine compartment to left.
8. Remove driveshaft tunnel panelling on right and left.
9. Remove instrument cluster cover.
10. Remove radio/on-board monitor.
11. Remove glove box.
12. Remove right sill strip.
13. Remove right A-pillar trim panel.
14. Remove light and check-control module.

2. Connection overview of the supplementary wiring harness

F 39 67 001 M

Item	Package / Designation	Cable colour	Connection point in vehicle	Code designation/ plug-in place
1	Socket housing	–	Headlight right, headlight left	–
A	Joint connector contact/terminal 58g	grey/red	Joint connector box under instrument cluster	X908
B	Socket contact	yellow/black	White 4-contact socket housing (1)	X1035/1
C	Socket contact	yellow/brown	White 4-contact socket housing (1)	X1035/2
D	Socket contact	blue/black	White 4-contact socket housing (1)	X1035/3
E	Socket contact	blue/brown	White 4-contact socket housing (1)	X1035/4
F	Socket contact	yellow/red	White 4-contact socket housing (1)	X1034/1
G	Socket contact	yellow/brown	White 4-contact socket housing (1)	X1034/2
H	Socket contact	blue/red	White 4-contact socket housing (1)	X1034/3
I	Socket contact	blue/brown	White 4-contact socket housing (1)	X1034/4
J	White 3-contact socket housing	–	Potentiometer LWR R13	X10051
K	Socket contact	blue/red	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/2
L	Socket contact, twisted with branch cable blue/red	blue/brown	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/3
M	Socket contact, twisted with branch cable yellow/brown	yellow/red	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/4

Item	Package / Designation	Cable colour	Connection point in vehicle	Code designation/ plug-in place
N	Socket contact, twisted with branch cable yellow/red	yellow/brown	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/5
O	Socket contact not twisted with another cable	brown/black	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/53
P	Socket contact not twisted with another cable	yellow/red	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/34
Q	Socket contact	blue/black	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/20
R	Socket contact, twisted with branch cable blue/black	blue/brown	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/21
S	Socket contact	yellow/black	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/22
T	Socket contact, twisted with branch cable yellow/black	yellow/brown	Black 54-contact socket housing on light/check-control module A3, on A-pillar right	X10117/23

3. Alter the headlight unit

Note

The illustrations show the alteration of the left headlight. The alteration of the right headlight is carried out similarly.

F 39 67 002 M

Unclip headlight glass (1) on headlight housing (2) and remove forwards.

F 39 67 003 M

Before disassembling the headlight reflector (1), the two rubber collars on the back of the headlight housing are to be detached. Dismantle side-light bulb with socket. Unclip and dismantle headlight reflector (1) from the supports in the headlight housing (2).

F 39 67 004 M

Dismantle support (1) for headlight reflector from the **old** headlight housing.

Connect existing socket housing (4) to the control motor (2).

Install control motor (2) with the dismantled TORX screws into the **new** headlight housing (3).

Secure existing cable in housing.

The **old** headlight housing is no longer required.

Assembly is carried out in the reverse order of dismantling.

4. Install supplementary wiring harness

F 39 67 006 M

Install supplementary wiring harness along the vehicle wiring harness as follows:

Branch cable **A** to joint connector box left under instrument cluster.

Branch cables **B-E** along the cross arm underneath the radiator to mounting position of the headlight on the right side of the vehicle.

Branch cables **F-I** to mounting position of the headlight on the left side of the vehicle.

Branch cable **J** to mounting position of the potentiometer R13 on right near the fog-light switch on the instrument cluster.

Branch cables **K-T** to mounting position of the light/check-control module on the A-pillar on the right-hand side of the vehicle.

F 39 67 007 M

Connect branch cable **A**, cable colour grey/red, to joint connector X908 of the same colour in joint-connector box (1).

If the required joint connector is already entirely taken up, the branch cable should be connected to the cable with the largest cross-section in the joint connector.

F 39 67 008 M

Unclip cover (1). Lay branch cable **J**, white 3-contact socket housing, through the opening and connect it to the potentiometer R13 (2).

Secure potentiometer R13 (2) in the cover (3) of the instrument cluster.

F 39 67 010 M

Note

Branch cables **O** and **P** are **not** twisted with another cable.

Cable colours **yellow/brown**, **yellow/red** and **blue/brown** exist in duplicate. To exclude any possibility of confusion, note should be taken of the other cable colour with which the duplicated cable colour is twisted.

Cables which are twisted together are summarized in one row in the table.

The illustration shows the connection of branch cables **K** and **L**.

Proceed in the same way when connecting the other branch cables.

Connect branch cables **K-T** to the black 54-contact socket housing X10117 (1) as follows:

Branch cable	Cable colour	Connector socket
K	blue/red	2
L	blue/brown	3
M	yellow/red	4
N	yellow/brown	5
O	brown/black	53
P	yellow/red	34
Q	blue/black	20
R	blue/brown	21
S	yellow/black	22
T	yellow/brown	23

F 39 67 009 M

Note

The illustration shows connection of the right headlight. Proceed in the same way for connection of the left headlight.

Insert branch cables **B-E** and **F-I** into the enclosed socket housings X1034/X1035 (1) in accordance with the following table:

Headlight right, X1035:

Branch cable	Cable colour	Connector socket
B	yellow/black	1
C	yellow/brown	2
D	blue/black	3
E	blue/brown	4

Headlight left, X1034:

Branch cable	Cable colour	Connector socket
F	yellow/red	1
G	yellow/brown	2
H	blue/red	3
I	blue/brown	4

Fit headlights back into the vehicle.

Connect socket housings X1034/X1035 (1) to the pin housing on the headlight.

Connect battery.

Carry out functional test.

Reassemble vehicle in reverse order of disassembly.

Install headlights.

5. Coding

This system is coding-relevant.

So that the retrofit system

- is operational to its full capacity
- rules out any malfunctions and faults which may occur in connection with other electrical systems in the vehicle, a coding of this system and, if necessary, other vehicle control units, must be carried out.

In addition, this coding is stored in the central coding key of the IKE (integrated instrument electronics).

This coding is executed automatically with the coding program current at the time in the "retrofitting" path.

The procedure is operator-guided and the respective textual prompts are to be taken note of when executing the individual steps. This retrofit coding for this product is included from version C 8.0 onwards.

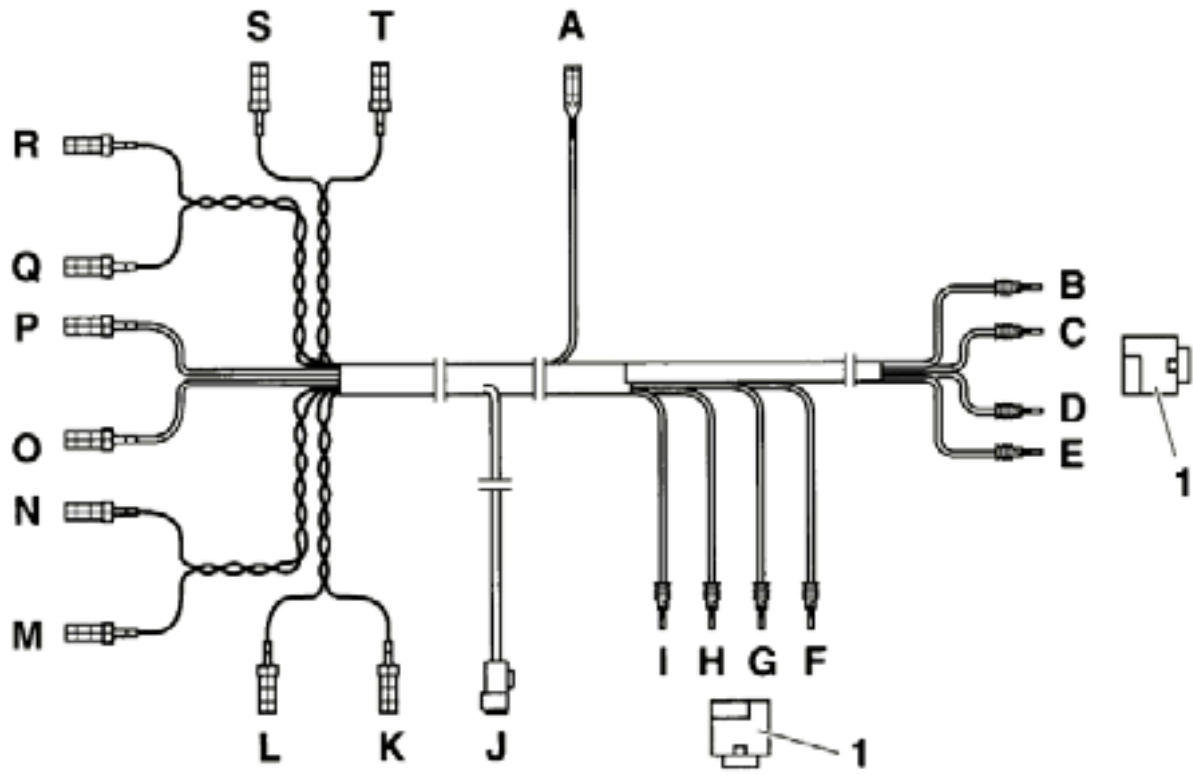
Procedure:

- Connect DIS/MoDiC to the vehicle
- Ignition "ON"
- Select "**Coding ZCS**"
- Confirm input date with "**Y**" (only in the case of MoDiC)
- Series: "**E39**"
- Path: "**2 Retrofit**"
- System: "**11 man. Headlight vertical aim control**"
- Start automatic coding (confirm with "**Y**")
- Ignition "OFF", wait at least 10 seconds and then ignition "ON" again
- Get a printout of the coding sticker and stick it in the boot to the right on the blank holder by the battery, near the existing coding sticker.

Print out error memory.

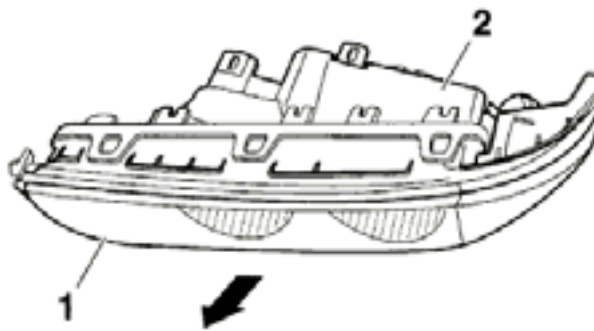
Carry out a functional check.

1



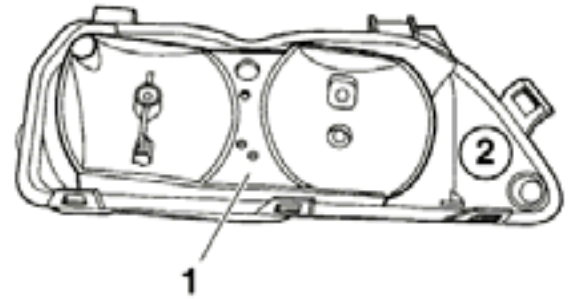
F 39 67 001 M

2



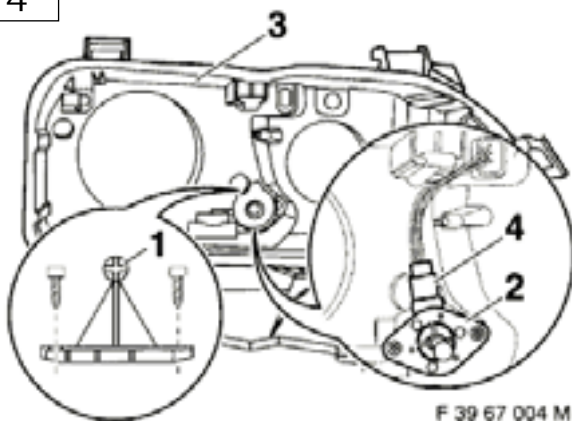
F 39 67 002 M

3



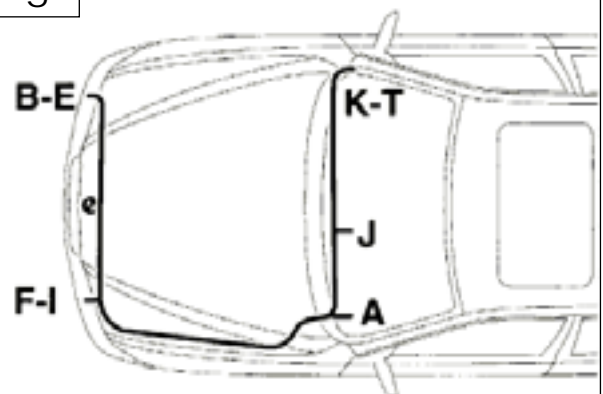
F 39 67 003 M

4



F 39 67 004 M

5



F 39 67 006 M

