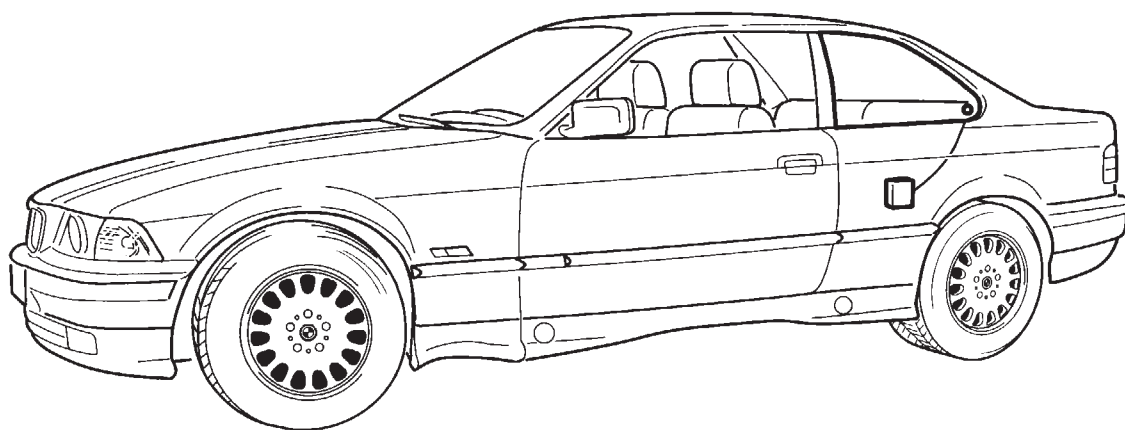




Zubehör - Einbauanleitung



F 36 62 225

Installation Instructions

Electric Hinged Window
BMW 3 Series E36/2

Electric Hinged Window

BMW 3 Series E36/2

Vehicles with central locking, central bodywork electronics, with or without electric sunroof. Specialized knowledge is required. Installation time is approx. 2 hours, though this may vary depending on the condition of the vehicle and its fittings.

General Remarks

Instructions and illustrations are given for left-hand drive models. Certain work steps must be carried out in mirror-image fashion for right-hand drive models.

Cable Laying

In order to prevent faults and errors, keep to the cable routes provided in the vehicle.

Never use so-called "Scotchlock fast connectors", as they may cause faults in the on-board electronics system.

When laying cables in the vehicle, make sure they are not kinked or otherwise damaged, as this may also result in damage which can subsequently be located only after extensive work. Resultant costs will not be reimbursed by BMW.

Tools and materials required

Regular screwdriver
Phillips screwdriver
Open-jawed spanner, 10 mm, 13 mm A/F
1/2" ratchet
1/2" extension
1/2" drive socket, 10 mm, 13 mm, 16 mm A/F
Torx key T 10, T 20
Adhesive tape

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1. Necessary Preliminary Work

1. Print out error memory
2. Disconnect battery
3. Remove rear seat bench
4. Remove left and right rear side upholstery (rear seat backrest)
5. Remove left and right C-column panelling
6. Remove left lower seat belt fixtures
7. Remove glove compartment
8. Remove left seat
9. Remove front and rear left cable shaft cover
10. Remove centre console

2. Power Supply Wiring Harness/ Overview

Only for vehicles without electric sunroof

F 36 51 500 P

Central locking version

Central bodywork electronics version

Connection Diagram

Item	Version/Designation	Cable colour	Connection location on vehicle	Brief designation of plug-in station
A	Cable lug, terminal 30	rd	Distribution box	X9
B	Fan connector, earth	br	In distribution box on fan connector	X10007
Ba	Fan connector	rd/bl	Fan connector, left A-column	X10120
Bc	Fan connector	–	Enclosed fan connector	X10120
C	Relay frame	–	Below steering column	X10240
D	Fan connector	vi/ye	Fan connector below glove compartment	X13132
Da	Socket contact	bk/gn	To central bodywork electronics (ZKE) module, green connector	X13254 19

3. Supplementary Wiring Harness/Overview

F 36 51 501 P

Central locking version

F 36 51 502 P

Central bodywork electronics version

Connection Diagram

Item	Version/Designation	Cable colour	Connection location on vehicle	Brief designation of plug-in station
E	Flat-type socket	rd/bl	In distribution box in fuse strip	X10016 F13
F	Flat-type socket	rd/br	In distribution box in fuse strip	X10016 F13
G	Cable lug, earth	br	Earth support, left A-column	X173
H	Fan connector	gr/rd	Fan connector, left A-column	X1019
Ha	Fan connector	gr/rd	Fan connector, left A-column	X1019
I	Flat-type socket	rd/bl	To comfort relay or power supply relay below steering column	X1181 2
Ia	Fan connector	rd/bl	Fan connector, left A-column	X10120
K	Relay frame	–	To fan connector box, left A-column	X13283
L	Socket contact	bk/rd	To central bodywork electronics (ZKE) module, green connector	X13254 18
M	Socket	–	In gearshift console, right	X320
N	Socket	–	In gearshift console, left	X317
O	Socket	–	In servomotor, right	X13126
P	Socket	–	In servomotor, left	X13125

Overview/Cable Layout

F 36 51 503 P

The supplementary wiring harness (1) must be installed at the following locations:

- 2 = Distribution box
- 3 = Earth support
- 4 = Fan connector, left A-column
- 5 = Relay holder below steering column
- 6 = Fan connector below glove compartment
- 7 = Central bodywork electronics (ZKE) module
- 8 = Switch, left
- 9 = Switch, right
- 10 = Motor, left
- 11 = Motor, right

4. Removing Panelling

F 36 62 235

Remove cover cap (2). Remove Phillips screws (1). Remove panelling (3) in direction of arrow.

F 36 65 013

Remove entrance strip. Remove edge guard (1). Lever out cover (3). Remove Phillips screw (4) and lever (5). Turn plastic screw (6) 90° and remove side panelling (2).

F 36 51 128

Remove hexagon screws (1) in footwell. Remove boot from switchgear console. Remove switch and frame.

F 36 63 068

Remove cover. Remove Torx screws (1) and lift up distribution box (2).

F 36 51 456 P

Press fuse strip (2) out of distribution box (1) in direction of arrow.

F 36 51 129

Remove guide (1) in direction of arrow.

5. Laying Power Supply Line

Only for vehicles with central locking or central bodywork electronics without electric sunroof

F 36 51 457 P

Lay power supply line from passenger compartment to distribution box. Release hexagon nut (1) and secure connection (A).

Only for vehicles with central locking

F 36 51 505 P

Insert connection (B) in fan connector (1) of same colour.

F 36 51 506 P

Lay connection (D) to fan connector below glove compartment and insert in fan connector (1) of same colour.

Note

For right-hand drive models, connection (D) must be inserted in fan connector on left A-column.

All vehicles

F 36 51 507 P

Insert relay frame (C) with relay (1) K78 in relay holder (2) next to steering column.

Only for vehicles with central bodywork electronics

F 36 51 508 P

Pull retaining lug of fan connector of left A-column in direction of arrow and lever out fan connector. Insert connection (Ba) in enclosed fan connector (Bc).

F 36 51 509 P

Lay connection (Da) to central bodywork electronics module (2). Release green connector (1) and insert connection (Da) in plug-in station 19.

6. Laying Supplementary Wiring Harness**F 36 51 510 P**

Lay connections (E, F) from passenger compartment to distribution box. Pull slide (1) of fuse strip (2) in direction of arrow and insert connections (E, F) in fuse strip (2) F13. After installing set, insert a 5A fuse.

F 36 51 511 P

Release hexagon nut (1) and secure connection (G) at earth support of left A-column.

Only for vehicles with central locking**F 36 51 512 P**

Lay connection (I) to power supply socket (C) next to steering column and insert in plug-in station 2.

Note on installation

For vehicles with central locking and electric sunroof, connection (I) is inserted in the available comfort relay, plug-in station 2.

F 36 51 513 P

Lay connection (H) to fan connector (left) below dashboard and insert in fan connector of same colour.

Only for vehicles with central bodywork electronics**F 36 51 514 P**

Lay connections (Ha, Ia, K) to fan connector (1) of left A-column. Insert connection (Ha) in fan connector of same colour. Fit relay frame (K) on fan connector (1). Insert connection (Ia) in fan connector (Bc).

Note on installation

For vehicles with central bodywork electronics and electric sunroof, connection (Ia) is inserted in the available fan connector of the same colour.

F 36 51 515 P

Lay connection (L) to central bodywork electronics module (2). Release green connector (1) and insert connection (L) in plug-in station 18.

All vehicles**F 36 51 516 P**

Lay connections (N, M) under left seat to gearshift console. Lay connection (P) to installation position of left motor and connection (O) via seat bench to installation position of right motor.

F 36 62 240

The openings (1) of the actuating switches must be cut out as shown in the illustration.

Dimension A = 25 mm

Dimension B = 82 mm

F 36 51 518 P

Press frames (1) into gearshift console. Connect connections (M, N) with actuating switches (2, 3).

7. Installing Folding Catch and Motors**F 36 62 230 P**

Remove window sealing rubber. Remove rear left and right side panelling (1). Release rivets (2) and move insulating mat (3) to the side.

F 36 62 231

Remove Phillips screws (2) and remove covers (1), left/right.

F 36 62 228

Cover nut (1) with adhesive tape (2) and release Torx screw (3) and hexagon screws (4). Remove folding catch (5). Install new folding catch. Proceed in same way on right side.

F 36 62 232 P

Insert shaft (1) through bore (3) into folding catch (2) and connect to motor (4). Secure motor (4) with hexagon screws (5), U-shaped washers (6) and hexagon nuts (7).

Note

In the case of old vehicles, redrill the bores for the motor fixture.

F 36 51 520 P

Remove prestamped areas (1, 2) from insulating mat. Secure shaft with clamp (3) and Phillips screw (4).

F 36 51 521 P

Insert connection (P) in motor (1), left. Insert connection (O) in motor, right.

F 36 51 499 P

Cut out side panelling (1), left/right, as shown in illustration so that shaft (2) can turn easily.

Reinstall all removed parts in reverse sequence.

