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all fuse and relay box with diagram

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BMW 7 (2008 – 2015) F01 F02 fuse and relay

BMW Comments: 1

The fifth generation of the 7 Series BMW is designated by the body index – F01 / F02 (extended version), a separate series was designated as Alpina B7. This car was produced in 2008, 2009, 2010, 2011, 2012, 2013, 2014 and 2015. This material will discuss the power supply circuit, a detailed description of the fuses and relays of the **BMW F01 F02** with their diagrams and photo examples of execution. Let's highlight the fuses responsible for the cigarette lighter.



”

Depending on the configuration and year of manufacture, your assignment of fuses and relays may differ from the information provided.

Contents

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Power system overview

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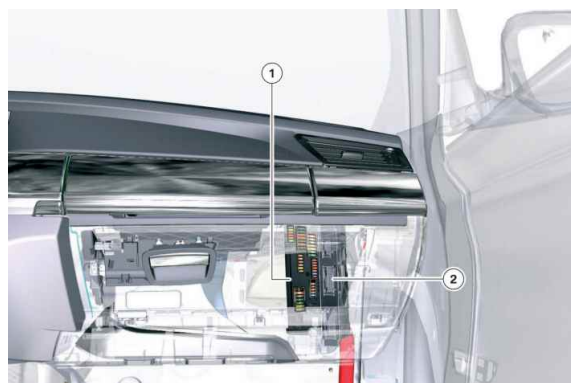


1. Generator;
2. Battery positive output;
3. Power distribution box in the engine compartment;
4. Control electronics compartment in the engine compartment;
5. Front fuse holder behind the glove compartment;
6. Rear fuse holder on the right side of the luggage compartment;
7. Accumulator battery;
8. Starter.

Passenger compartment

Inside the car, the main unit with fuses and relays is located in the glove compartment (or what I call the glove box).

” It should also contain up-to-date information on the location of the fuses for your model in the form of a sheet of paper (fusecard).



location of the fuse box bmw f 01 02

1. Front fuse holder;
2. Junction box electronics.

It looks like this.



Diagram



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		Ampere																			
		20	5	-	5	10	5	20	15	10	7.5	15	7.5	10							
Assignment																					
1	10A Footwell control unit																				
2	5A Dynamic Stability Control (DSC)																				
	Door control unit																				
3	5A Central Control Gateway																				
	Diagnostic connector																				
4	5A Control unit																				
5																					
6																					
7	30A Junction Box																				
8	30A Junction Box																				
9	30A Junction Box																				
10	10A Instrument cluster																				
11	7.5A Heating and air conditioning control unit																				
12	5A Glove box light																				
13	5A Steering column switches																				
	Switch																				
	Driver assistance system																				
14	15A Junction box																				
15	20A Junction box																				
16	40A Footwell control unit																				
17	30A Footwell control unit																				
18	30A Footwell control unit																				
19	20A Trailer control unit																				
20																					
21																					
22	30A Pressure control valve																				
	Fuel metering solenoid																				
	Camshaft sensor																				
	Boost pressure regulator solenoid																				
	Mass flow meter																				
	Turbo control solenoid																				
	Compressor bypass																				
23	5A Telematics																				
24	10A Steering column switches																				
25	5A Head-Head Display Control Unit																				
26	5A Instrument cluster																				
27	5A Eject box																				
28	5A Video system																				
29	5A Rear control unit																				
	Touchbox control device																				
30																					
31	5A Rear climate control unit																				

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^		Back light
33		5A Seat belt pretensioner control unit
		Heating control unit
		Tank vent valve
		Fuel tank shut-off valve
		or
		Seat belt pretensioner control unit
		Heating control unit
34		5A Chassis Integration Module
35		15A DDE main relay
36		30A Headlight washer pump
37		30A Vertical dynamics control
38		40A Vehicle access control unit
39		40A Power steering control unit
40		30A Dynamic Stability Control (DSC)
41		
42		Electro-hydraulic solenoids for engine mounting
		EGR Cooling Bypass Valve
		Oil quality sensor
		Oxygen sensor behind the catalytic converter
		Oxygen sensor before catalytic converter
		Mass flow meter
		Compressor bypass
		Oil level sensor
		Damper control solenoid
43		5A Electromechanical power steering
		or
		Throttle Position Valve
		Electromechanical power steering
44		5A Automatic air conditioning
		Camera control unit
45		5A Vertical Dynamics Control
		Power steering control unit
46		5A Radiator damper control unit
		Cruise control
47		20A Exhaust gas recirculation coolant pump
		Exhaust Gas Recirculation Solenoid
		or not used
48		5A Electrochromic rear view mirror
		Engine crankcase heater
49		
50		
51		30A Wiper Module
52		30A Driver's seat control unit
		or

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58	5A Noise filter
	Hatch module
59	10A Intercooler pump
60	5A Parking brake switch
61	20A Sunroof 20A
62	15A Signal
63	10A Automatic Transmission
64	7.5A Selector Switch
65	15A Additional 12V socket
	Or
	Auxiliary heating system
	(20A is also used)
66	7.5A Hatch
	or
	Door switch control unit
	Exterior mirror
67	10A Seat adjustment switch
	or
	Driver's seat adjustment switch
	Front passenger seat adjustment switch
	Valve block, lumbar support
68	40A Fan
69	50A Dynamic Stability Control (DSC)
70	60A Cooling fan cut-out relay
71	50A Fuel filter heater

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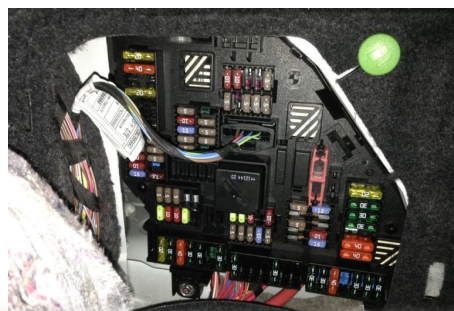
Separately, we note: **fuses 54, 65, 147, 176 are responsible** for the **cigarette lighter**. Half of them are in the luggage compartment.

The relays are marked with squares: signal relay, windshield wiper relay, and others.

Luggage compartment

Fuse and relay box

Due to the large number of consumers and control units, an additional fuse holder is installed in the luggage compartment F01 / F02. It is located on the right side under the skin.



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Along with the fuses, some more relays are inserted into it or soldered onto the board.

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1. Relay terminal 30B (inserted);
2. Contact 30F relay (soldered);
3. Contact 15N relay (soldered);
4. Relay for heating the rear window (soldered).

Designation

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Check the purpose of the elements with your diagram or other technical documentation.

Table with decoding of elements

Fuse box

An additional fuse box can be installed next to the main fuse and relay box if there is an additional battery in the car.

Scheme

Appointment

1. Additional battery control unit 5A
2. Reserve
3. Additional battery control unit 20A
4. Sound control unit 5/2A
5. Charging connector 10A
6. Sound control unit 20A
7. Reserve 5A
8. Reserve 5A

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18. Additional battery control unit 10A

19. Additional battery control unit 5A

20. Additional battery control unit 5A

Relay box

Diagram

Decoding

- » R1 – alarm
- » R2 – rear electric windows
- » R3 – shutdowns
- » R4 – rear electric windows
- » R5 – compressor clutch
- » F1 – 100.0 A – fuse box No. 2 in the luggage compartment

Power fuse box

On the positive terminal of the battery (if there is an additional battery, there are also controls nearby) there are main high-power fuses and some relays:

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^	7	60A Rear axle camber sensor
	8	100A Fuse Box No. 1 in Luggage Compartment
	9	250A Junction Box
	10	100/150A Fuse Box No. 1 in Luggage Compartment

Engine compartment

Diagram

Assignment

1	5A Electromechanical power steering
2	30A Distributor
	Engine electronics
	or
	Engine electronics
3	125A Electromechanical power steering
	or
	Electromechanical power steering
	Capacitor
R1	DDE main relay

If you have something to add, write in the comments.

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