



Sprinter

Fuse assignment supplement

Mercedes-Benz



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In these Operating Instructions, you will find the following symbols:

 **DANGER** Danger due to not observing the warning notices


Warning notices draw your attention to hazards that may endanger your health or life, or the health or life of others.

► Observe the warning notices.

 **ENVIRONMENTAL NOTE** Environmental damage due to failure to observe environmental notes


Environmental notes include information on environmentally responsible behavior or environmentally responsible disposal.

► Observe environmental notes.

 **NOTE** Damage to property due to failure to observe notes on material damage

Notes on material damage inform you of risks which may lead to your vehicle being damaged.

► Observe notes on material damage.

 These symbols indicate useful instructions or further information that could be helpful to you.

► Instructions

(→ Further information on a topic page)

Display Display in the multifunction display/media display

Display in the taximeter



Highest menu level to be selected in the multimedia system



Corresponding submenus to be selected in the multimedia system

* Indicates a cause

Notes on fuses

⚠ WARNING Risk of accident and injury due to overloaded lines

If you manipulate or bridge a faulty fuse or if you replace it with a fuse with a higher amperage, the electric line could be overloaded.

This could result in a fire.

- ▶ Always replace faulty fuses with specified new fuses containing the correct amperage.

! **NOTE** Damage or malfunctions caused by moisture

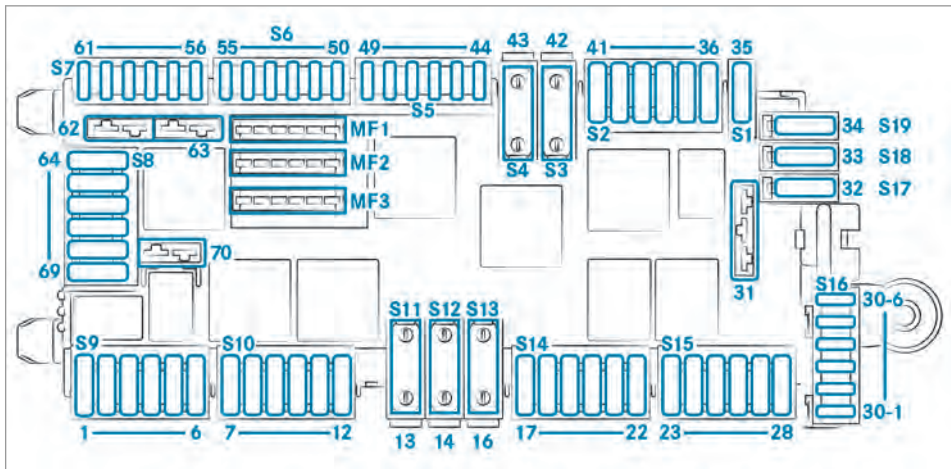
Moisture may cause damage to the electrical system or cause it to malfunction.

- ▶ When the fuse box is open, make sure that no moisture can enter the fuse box.
- ▶ When closing the fuse box, make sure that the seal of the lid is positioned correctly on the fuse box.

You can find further information on fuses in the vehicle Operating Instructions.

Fuses/relays in the front-passenger footwell

Fuse assignment



No.	Consumer	Fuse rating
MF1		
15-1	Engine control unit	5 A
15-1	Common Powertrain Module (CPC)	5 A
15-1	ESP® control unit	5 A
15-1	All-wheel drive control unit	5 A
15-1	Retarder	5 A

No.	Consumer	Fuse rating
15-1	Air suspension	5 A
MF2		
15-2	Feedback cable, terminal 15 relay	5 A
15-2	Headlamp range control, halogen headlamp	5 A
15-2	Tachograph TCO	5 A

No.	Consumer	Fuse rating
15-2	Active Brake Assist radar sensor	5 A
15-2	Deactivation of reverse warning device, power take-off, working speed control	5 A
15-2	DIN slot connection	5 A
MF3		
30-T	Multifunction camera	7.5 A
30-T	Tachograph TCO	7.5 A
30-T	DIN slot connection, roof	7.5 A
30-T	Terminal 15, undervoltage relay	7.5 A
30-T	Instrument cluster	7.5 A
30-T	Central oil pump	7.5 A
S9		
1	Unassigned	
2	Common Powertrain Module (CPC)	10 A
3	Engine control unit OM642/OM651/M274	10 A
4	DIN slot, cockpit	7.5 A
5	Common Powertrain Module (CPC)	10 A
6	Radiator fan (not for OM654)	5 A
S10		
7	Automatic transmission	30 A
8	Body controller	30 A
9	Body controller	30 A
10	Heating, SCR catalytic converter	30 A
11	Overhead control panel (standard)	10 A
	Overhead control panel, Cab Chassis	10 A

No.	Consumer	Fuse rating
	Overhead control panel (high)	15 A
12	Pump, SCR catalytic converter	15 A
S11		
13	Automatic transmission NAT 3	60 A
S12		
14	ESP® valves (Premium), vehicles with electric parking brake	40 A
	ESP® valves (Standard)	25 A
S13		
16	ESP® pump	60 A
S14		
17	Body controller	30 A
18	Body controller	30 A
19	D+, body manufacturer	10 A
20	Co-driver's door control unit	25 A
21	Driver's door control unit	25 A
22	Air suspension (LFA) control unit	10 A
S15		
23	Blower control unit	25 A
24	USB charging socket (cockpit), USB charging socket (stowage compartment), 115/230V converter socket	7.5 A
25	Cigarette lighter socket, center console	15 A
26	Information panel socket	15 A
27	Converter socket, 115 V/230 V	25 A

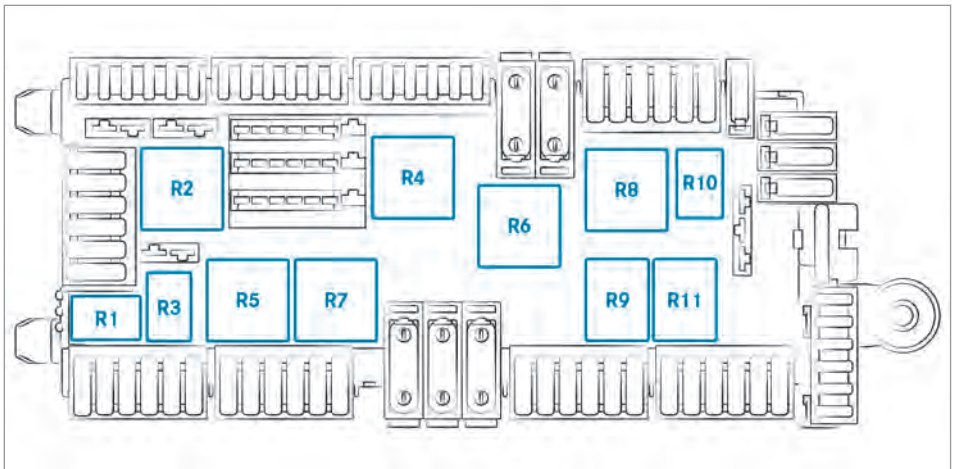
No.	Consumer	Fuse rating
28	Radio pre-installation, cargo liftgate, voltage converter antenna, 115/230V converter socket for vehicles with auxiliary battery	7.5 A
S16		
30-1	Unassigned	
30-2	Unassigned	
30-3	Central locking	5 A
30-4	Anti-theft alarm system (ATA)	5 A
30-5	Unassigned	
30-6	Electronic ignition lock control unit	10 A
31	Actuation, terminal 15-II relay	25 A
S17		
32	Unassigned	
S18		
33	Voltage dip sensor (SEB)	5 A
S19		
34	Electrics for body interior lighting	10 A
S1		
35	Advanced Caravaning Unit (ACU)	7.5 A
S2		
36	Air conditioning control panel	5 A
37	Electric Steering Wheel Locking (ESTL)	5 A
38	Steering Column Switch Module (SCSM)	10 A
39	Radio antenna, navigation system, two-way radio	10 A

No.	Consumer	Fuse rating
40	Rotating beacon	5 A
41	Radio multimedia system (C5/NTG6)/radio pre-installation	25 A
S3		
42	Unassigned	
S4		
43	Unassigned	
S5		
44	Multimedia system control panel	5 A
45	Charger bracket, Wireless Mobile Interface (WMI)	5 A
46	Multimedia connection unit (MMI)	7.5 A
47	Hermes (UMTS/LTE communication module)	5 A
48	Telestart stationary heating	5 A
49	Central display	5 A
S6		
50	Additional headlamp, left (platform body manufacturer)	5 A
51	Auxiliary headlamp, right (platform body manufacturer)	5 A
52	Control unit, airbag	7.5 A
53	Diagnostics	5 A
54	Relay supply	5 A
55	TS engine (diesel), engine control unit (OM651)	7.5 A
S7		
57	Soot particulate sensor, NO _x sensor	15 A

No.	Consumer	Fuse rating
	Soot particulate sensor (not for OM654)	10 A
58	Engine, exhaust gas recirculation (EGR) (OM642/OM651)	10 A
	Engine (not for OM654)	15 A
59	NO _x sensor before/after catalytic converter (not for OM654)	10 A
60	Lambda sensor	7.5 A
61	M274 engine	10 A
	Engine (OM642/OM651)	7.5 A
H2		
62	Engine control unit (not for OM654)	15 A

No.	Consumer	Fuse rating
	Engine control unit	20 A
63	Engine (M274)	20 A
	Engine (not for OM654)	25 A
S8		
64	Body controller	30 A
65	Body controller	30 A
66	Roof ventilator	15 A
67	Control unit for fuel measurement (FSCM)	25 A
68	LED headlamp, right	15 A
69	LED headlamp, left	15 A
H2		
70	Windshield wipers	30 A

Relays in the front-passenger footwell

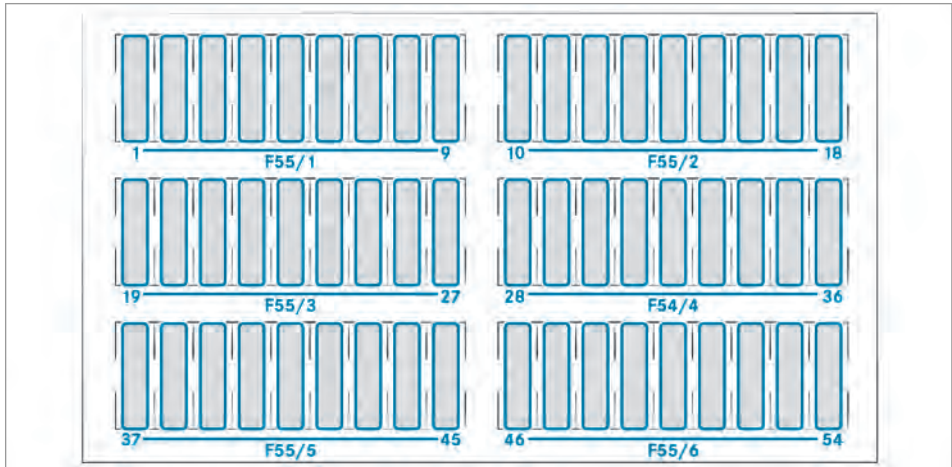


No.	Designation	Permissible current intensity
R1	Reserve	30 A
R2	Terminal 87, engine	50 A
R3	Terminal 87, Common Powertrain Module CPC	30 A
R4	Terminal 15-I	40 A
R5	Windshield wipers on/off	40 A
R6	Reserve	40 A
R7	Windshield wipers fast/slow	40 A

No.	Designation	Permissible current intensity
R8	Terminal 50, starter	40 A
R9	Terminal 15R (vehicles without additional battery)	50 A
R10	Terminal 15-II	30 A
R11	Terminal 15R (vehicles with additional battery)	50 A

Fuses on the outside of the driver's seat base

Fuse assignment



Fuse block F55/1

No.	Consumer	Fuse rating
1	Additional turn signal lamp	10 A
2	Rear window wiper, right	15 A

No.	Consumer	Fuse rating
3	All-wheel drive	30 A
4	Terminal strip for electrical connection (body manufacturer)	25 A

No.	Consumer	Fuse rating
5	Driver's seat adjustment control unit	25 A
	Driver's seat heating control unit	
6	Driver lumbar support	10 A
	Co-driver's lumbar support	
7	Co-driver's seat adjustment control unit	25 A
	Co-driver's seat heating control unit (double jump seat)	
8	Tire pressure monitor	5 A
	Motion detector and tire pressure monitoring system	
9	Parking Assist	5 A
	Rear view camera (RVC)	

Fuse block F55/2

No.	Consumer	Fuse rating
10	Trailer coupling, right (trailer socket)	25 A
11	Trailer coupling control unit	15 A
12	Trailer coupling, left (trailer socket)	25 A
13	Trailer coupling control unit	15 A
14	Multi Purpose Module (MPM) (body manufacturer interface)	25 A
15	Multi Purpose Module (MPM) (body manufacturer interface)	25 A
16	Rear compartment blower	25 A
17	Auxiliary heating (water heating)	20 A
18	Automatic transmission, auxiliary oil pump	15 A

Fuse block F55/3

No.	Consumer	Fuse rating
19	Auxiliary heating Terminal 15 on auxiliary battery	15 A
20	Auxiliary battery voltage measurement	5 A
21	Rear window heater, left	15 A
22	Rear window heater, right	15 A
23	Cargo liftgate/dumper vehicle (pre-installation)	7.5 A
24	Terminal strip for electrical connection (body manufacturer)	15 A
25	Roof ventilator relay	5 A
26	Special signal, cockpit body manufacturer	7.5 A
27	Rear window heater	30 A

Fuse block F55/4

No.	Consumer	Fuse rating
28	Sliding door, left	15 A
	Electric sliding door, left	30 A
29	Sliding door, right	15 A
	Electric sliding door, right	30 A
30	Antenna switch box	5 A
31	Automatic transmission	7.5 A
32	Automatic transmission	10 A
33	Brake booster	30 A
34	Siren relay	15 A
	Pre-installation for camper van	30 A

No.	Consumer	Fuse rating
35	Rotating beacon with siren Pre-installation for camper van	15 A 30 A
36	Pre-installation for camper van	30 A

Fuse block F55/5

No.	Consumer	Fuse rating
37	Electrical step, left	10 A
38	Electrical step, right	10 A
39	Warning buzzer, electrical step, left/right	5 A
40	Automatic transmission (NAT2)	10 A
41	Terminal 15, special signal, cockpit body manufacturer	5 A
42	Rear view camera (RVC) Inside rearview mirror (rear view camera display)	5 A
43	Socket, cab	15 A

No.	Consumer	Fuse rating
44	Socket, D-pillar, left	15 A
45	Socket, D-pillar, right	15 A

Fuse block F55/6

No.	Consumer	Fuse rating
51	USB port, wiper, front left	7,5 A
	USB port, wiper, front left (with sliding door, left)	5 A
52	USB port, wiper, front right	7,5 A
	USB port, wiper, front right (with sliding door, right)	5 A

Fuses/relays in the base of the driver's seat and in the battery box

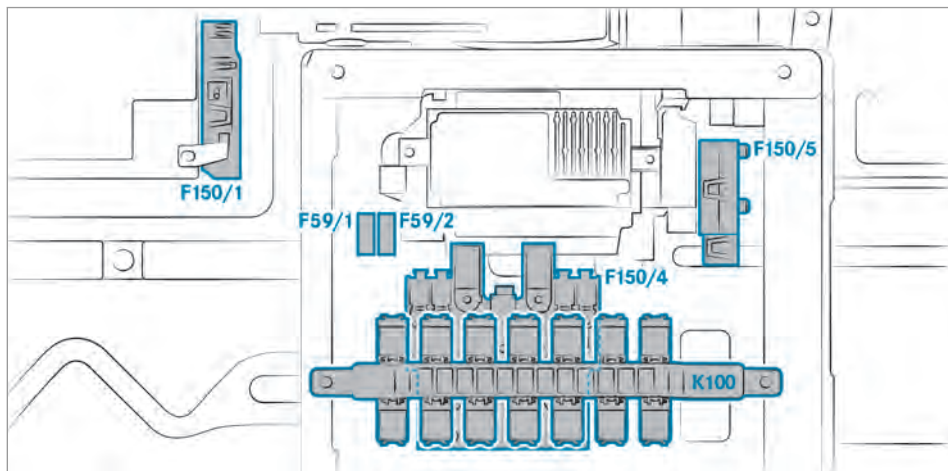
Fuse assignment

Additional fuses/relays are located in the seat base of the driver's seat:

- for the windshield heater
- for other vehicle components, such as power-steering pumps, auxiliary battery, battery cut-off relays and PTC heater boosters

- from the body manufacturers for retarders, cargo liftgate, hydraulic pump and dumper vehicle

i Always have the fuses/relays in the seat base replaced at a qualified specialist workshop.



Fuse block F150/1 (MFB-1) in the battery box

No.	Consumer	Fuse rating
1	Battery sensor	
2	Unassigned	MIDI
3	Main fuse box (MFB-2)	Busbar
4	Power Distribution Center terminal 30 (F30-1 - F30-6)	50 A
5	PTC heater booster	125 A

Fuse block F150/4 (MFB-2)

No.	Consumer	Fuse rating
1	Terminal 30T, fuse box, seat base of driver's seat (F55/1 - F55/6)	125 A
2	Electric steering	125 A
3	Alternator	300 A
	Alternator	400 A
4	External power supply	

No.	Consumer	Fuse rating
5	Power Distribution Center (PDC), FB-P	175 A
6	Glow output stage (GZE)	80 A
7	Radiator fan (not for OM654)	40 A
	Engine radiator fan	70 A
	Radiator fan (not for OM654)	80 A
8	Camper van main fuses	100 A
9	Unassigned	
10	Air-conditioning system, rear compartment	100 A
	Air-conditioning system, rear compartment	50 A
	Air-conditioning system, rear compartment	25 A
11	Auxiliary battery/battery cut-off relay	150 A
	Retarder without auxiliary battery	100 A

No.	Consumer	Fuse rating
12	Air suspension (LFA)	40 A
13	Windshield heater	80 A

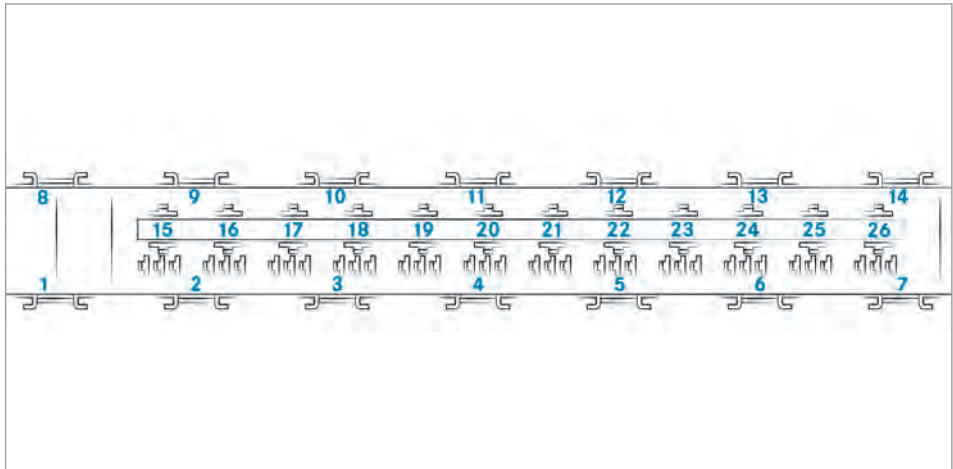
Fuse block F150/5 (MFB-ZB)

No.	Consumer	Fuse rating
1	Retarder	100 A
2	Cargo liftgate/dumper vehicle (pre-installation)	250 A
3	Auxiliary battery	

No.	Consumer	Fuse rating
4	Battery cutoff relay	150 A
5	Sockets, converter	60 A
6	Auxiliary heating	25 A

Individual fuses F59/1 and F59/2

No.	Consumer	Fuse rating
1	Windshield heater, left	40 A
2	Windshield heater, right	40 A

K100 relay carrier


No.	Designation
Supplementary relay, bottom	
1	Windshield heater
2	Terminal 15
3	Rear window heater
4	Sockets, rear
5	Interior lamp

No.	Designation
6	Free
7	Free
Supplementary relay, top	
8	Free
9	Free
10	Free

No.	Designation
11	Free
12	Free
13	Free
14	Free
Mini-relay	
15	Rear window wiper, right
16	Terminal strip body manufacturer
17	Switch, reverse warning device
18	Roof ventilator
19	Auxiliary oil pump
20	Electrical step, right 1
21	Electrical step, right 2
22	Electrical step, left 1
23	Electrical step, left 2
24	Siren
25	Rotating beacon with siren
26	Cargo liftgate
Auxiliary battery relay	
	Auxiliary battery

F**Fuses**

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Publication details

Internet

Further information about Mercedes-Benz vehicles and about Daimler AG can be found on the following websites:

<http://www.mercedes-benz.com>

<http://www.mbusa.com> (USA only)

<https://www.freightlinersprinterusa.com>

<http://www.mercedes-benz.ca> (Canada only)

Documentation team

Should you have any questions or suggestions regarding these Operating Instructions, you can reach the technical documentation team at the address listed on the inside cover page.

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