



Sprinter

Fuse Assignment Supplement



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2 Symbols

In this Supplement, 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

* 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

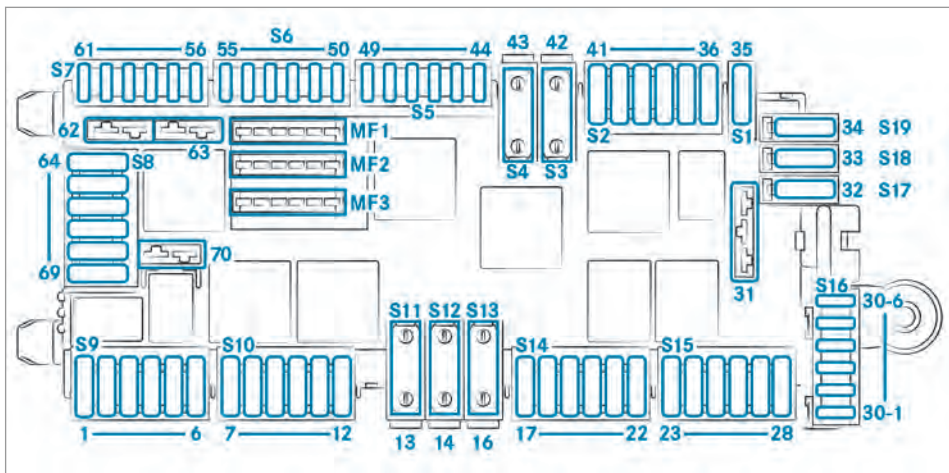
Moisture may cause damage to the electrical system or cause it to malfunction.

- ▶ 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 Operator's Manual.

Fuses and relays in the co-driver footwell

Fuse assignment



| No. | Consumer | Fuse rating |
|------------|---|-------------|
| MF1 | | |
| 15-2 | Engine control unit | 5 A |
| 15-2 | Common Powertrain Module (CPC) | 5 A |
| 15-2 | ESP® control unit | 5 A |
| 15-2 | All-wheel drive control unit | 5 A |
| 15-2 | Pre-installation for Onboard Logic Unit (OLU) control unit | 5 A |
| 15-2 | Terminal 15, special signal, cockpit body manufacturer | 5 A |
| MF2 | | |
| 15-1 | Feedback cable, terminal 15 relay | 5 A |
| 15-1 | Headlamp range control, halogen headlamp | 5 A |
| 15-1 | Tachograph TCO | 5 A |
| 15-1 | Active Brake Assist radar sensor | 5 A |
| 15-1 | Deactivation of reverse warning device, power take-off, working speed control | 5 A |
| 15-1 | Device installation frame, connector coupling | 5 A |
| MF3 | | |
| 30-T | Multifunction camera | 7.5 A |
| 30-T | Unassigned | |
| 30-T | Connector coupling, device installation frame, roof | 7.5 A |
| 30-T | Terminal 30T, special signal, cockpit body manufacturer | 7.5 A |
| 30-T | Instrument cluster | 7.5 A |
| 30-T | Device installation frame, cockpit | 7.5 A |
| S9 | | |
| 1 | Unassigned | |

| No. | Consumer | Fuse rating |
|------------|---|-------------|
| 2 | Common Powertrain Module (CPC) | 10 A |
| 3 | Engine control unit OM642/OM651/M274 | 10 A |
| | Engine control unit OM654 | 5 A |
| 4 | Automatic transmission central oil pump | 7.5 A |
| 5 | Common Powertrain Module (CPC) | 10 A |
| 6 | Radiator fan control, terminal 87c | 5 A |
| S10 | | |
| 7 | Automatic transmission intelligent servo module | 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 |
| | Overhead control panel, delivery vehicle | 10 A |
| | Overhead control panel (high) | 15 A |
| 12 | Pump, SCR catalytic converter | 15 A |
| S11 | | |
| 13 | Automatic transmission | 60 A |
| S12 | | |
| 14 | ESP® valves (Premium), vehicles with electric parking brake | 40 A |
| | ESP® valves (Standard) | 25 A |

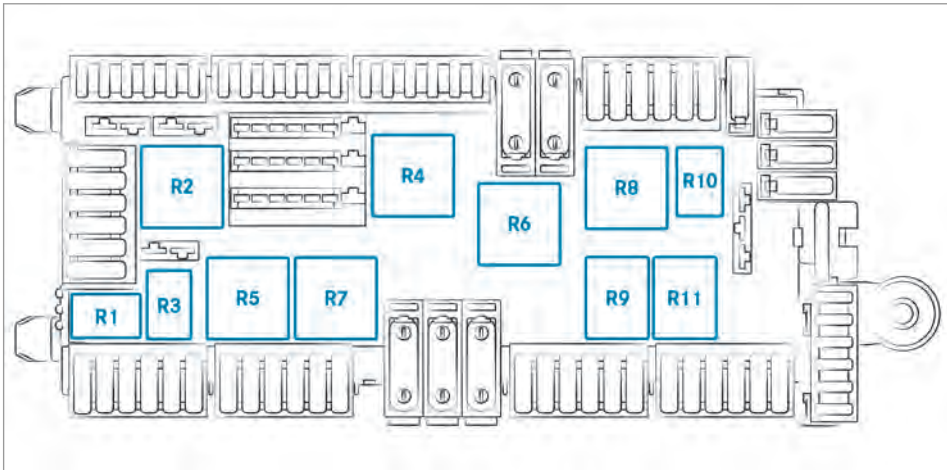
| No. | Consumer | Fuse rating |
|------------|---|-------------|
| S13 | | |
| 16 | ESP® pump | 60 A |
| S14 | | |
| 17 | Body controller | 30 A |
| 18 | Body controller | 30 A |
| 19 | Terminal strip for body manufacturer electrical connection | 10 A |
| 20 | Co-driver door control unit | 25 A |
| 21 | Driver's door control unit | 25 A |
| 22 | Air suspension (LFA) control unit | 10 A |
| S15 | | |
| 23 | Unassigned | |
| 24 | USB port (cockpit), USB port (stowage compartment), converter socket 115 V/230 V | 7.5 A |
| 25 | Cigarette lighter | 15 A |
| | Socket, center console | 15 A |
| 26 | Socket, instrument panel | 15 A |
| 27 | Converter socket, 115 V/230 V | 25 A |
| 28 | Radio pre-installation, cargo liftgate, DSP connecting point, antenna voltage converter, 115 V/230 V converter socket for vehicles with auxiliary battery | 7.5 A |
| S16 | | |
| 30-1 | Unassigned | |
| 30-2 | Tachograph TCO | 7.5 A |
| 30-3 | Central locking system | 5 A |
| 30-4 | Anti-theft alarm system (ATA) | 5 A |
| 30-5 | Unassigned | |

| No. | Consumer | Fuse rating |
|------------|--|-------------|
| 30-6 | Electronic ignition lock control unit | 10 A |
| 31-A | Unassigned | |
| 31-B | Starter power supply, relay | 25 A |
| S17 | | |
| 32 | Unassigned | |
| S18 | | |
| 33 | Voltage dip limiter (SEB) | 5 A |
| S19 | | |
| 34 | Electrics for body interior lighting | 10 A |
| S1 | | |
| 35 | Ventilation blower regulator | 30 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 | Digital signal processor pre-installation | 10 A |
| 40 | Rotating beacon | 5 A |
| 41 | Radio multimedia system/radio pre-installation | 25 A |
| S3 | | |
| 42 | Unassigned | |
| S4 | | |
| 43 | Unassigned | |
| S5 | | |
| 44 | Switch panel, multimedia system | 5 A |
| 45 | Mobile phone cradle (WMI) | 5 A |

| No. | Consumer | Fuse rating |
|-----------|---|-------------|
| 46 | Multimedia connection unit (MMI) | 7.5 A |
| 47 | Hermes (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 | Additional headlamp, right (platform body manufacturer) | 5 A |
| | Switch clock for the auxiliary heating air, terminal 15 relay | 5 A |
| 52 | Control unit, airbag | 7.5 A |
| 53 | Diagnostics | 5 A |
| 54 | Relay supply | 5 A |
| 55 | Engine connecting point (diesel), engine control unit (OM651/OM642/M274) | 7.5 A |
| S7 | | |
| 56 | Control unit (OM654) | 15 A |
| 57 | Soot particulate sensor, NO _x sensor, main catalytic converter (OM654) | 15 A |
| | Soot particulate sensor | 10 A |
| 58 | Engine, exhaust gas recirculation (EGR) (OM642/OM651) | 10 A |
| | Engine (M274/OM654) | 15 A |
| 59 | NO _x sensor before/after catalytic converter | 10 A |
| 60 | Lambda sensor | 7.5 A |
| | Coolant pump (OM654) | 15 A |
| 61 | Engine (M274/OM651) | 10 A |
| | Engine (OM642) | 7.5 A |

| No. | Consumer | Fuse rating |
|-----------|---|-------------|
| | Engine (OM654) | 5 A |
| H2 | | |
| 62 | Engine (M274/OM654) | 15 A |
| | Engine (OM651/OM642) | 20 A |
| 63 | Engine (M274) | 20 A |
| | Engine (OM651/OM642/OM654) | 25 A |
| S8 | | |
| 64 | Body controller | 30 A |
| 65 | Body controller | 30 A |
| 66 | Automatic transmission auxiliary oil pump | 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 |

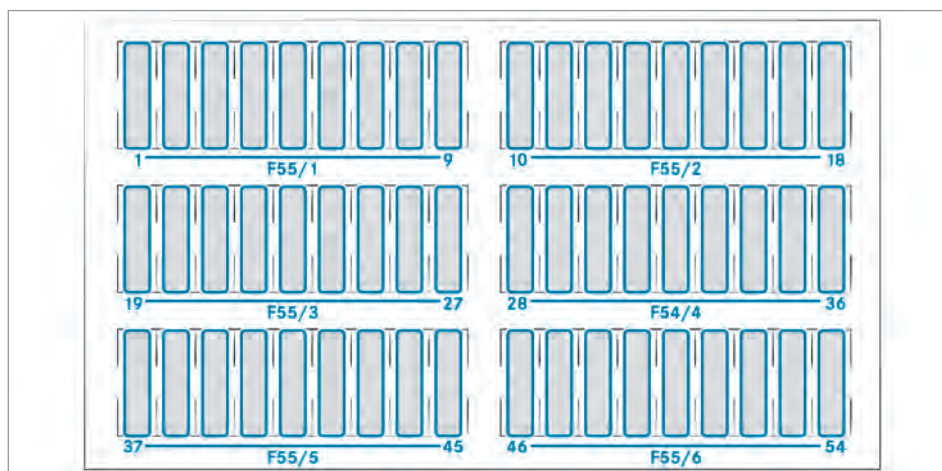
Relays in the co-driver footwell



| 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 | 40 A |
| R5 | Windshield wipers on/off | 40 A |
| R6 | Reserve | 40 A |
| R7 | Windshield wipers fast/slow | 40 A |
| R8 | Terminal 50, starter | 40 A |
| R9 | Terminal 15R (vehicles without auxiliary battery) | 50 A |
| R10 | Starter power supply, relay | 30 A |
| R11 | Terminal 15R (vehicles with auxiliary 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 |
| | Roof ventilator | 15 A |
| 2 | Rear window wiper, right | 15 A |
| 3 | All-wheel drive control unit | 30 A |
| | 4MATIC all-wheel drive control unit | 30 A |
| 4 | Parking Package | 5 A |
| | Rear view camera | |
| 5 | Driver seat adjustment control unit | 25 A |
| | Seat heating control unit, driver/co-driver with individual seat | |
| 6 | Driver lumbar support | 10 A |
| | Co-driver lumbar support | |
| 7 | Co-driver seat adjustment control unit | 25 A |

| No. | Consumer | Fuse rating |
|-----|---|-------------|
| | Seat heating control unit, co-driver bench seat | |
| 8 | Tire pressure monitoring system | 5 A |
| | Motion detector | |
| 9 | Rear blower | 25 A |

Fuse block F55/2

| No. | Consumer | Fuse rating |
|-----|--|-------------|
| 10 | Trailer coupling control unit, right | 25 A |
| 11 | Trailer coupling control unit (socket) | 15 A |
| 12 | Trailer coupling control unit, left | 25 A |
| 13 | Trailer coupling control unit (charging cable) | 15 A |

| No. | Consumer | Fuse rating |
|-----|---|-------------|
| 14 | Parameterizable special module control unit | 25 A |
| 15 | Parameterizable special module control unit | 25 A |
| 16 | Terminal 30, terminal strip for body manufacturer's electrical connection | 25 A |
| 17 | Hot-water auxiliary heater | 20 A |
| 18 | Terminal 30T for terminal 15 relay | 5 A |

Fuse block F55/3

| No. | Consumer | Fuse rating |
|-----|--|-------------|
| 19 | Rear window heater, left | 15 A |
| | Additional caravanning unit (PWM 1) | 25 A |
| 20 | Rear window heater, right | 15 A |
| | Additional caravanning unit (PWM 2) | 25 A |
| 21 | Rear window heater relay | 30 A |
| | Additional caravanning unit control unit | 5 A |
| 22 | Trailer brake booster | 30 A |
| 23 | Cargo liftgate/dumper vehicle (pre-installation) | 7.5 A |
| | Roof ventilator | 5 A |
| 24 | Terminal strip for electrical connection (body manufacturer) | 15 A |
| 25 | Rear view camera/rear view camera pre-installation | 5 A |
| | Rear view camera display, inside rearview mirror | |
| 26 | Hot-air auxiliary heater | 15 A |

| No. | Consumer | Fuse rating |
|-----|--|-------------|
| | Supply, terminal 15, auxiliary battery relay | |
| | Central locking system, delivery vehicle | 20 A |
| 27 | Auxiliary battery voltage measurement | 5 A |

Fuse block F55/4

| No. | Consumer | Fuse rating |
|-----|---|-------------|
| 28 | Sliding door, left | 15 A |
| | Electric sliding door, left | 30 A |
| | Intermediate door, delivery vehicle | 5 A |
| | Speed delivery door | 30 A |
| 29 | Sliding door, right | 15 A |
| | Electric sliding door, right | 30 A |
| | Reading lamp, delivery vehicle | 5 A |
| | Speed delivery door | 30 A |
| 30 | Antenna switch box | 5 A |
| | Interior lighting, body, delivery vehicle | |
| 31 | Automatic transmission, Ultracap | 10 A |
| 32 | Automatic transmission, 7G-TRONIC PLUS | 10 A |
| 33 | Pre-installation for Onboard Logic Unit (OLU) | 30 A |
| 34 | Pre-installation, siren | 15 A |
| | Pre-installation for camper van | 30 A |
| | OLU Connect Unit | 5 A |
| 35 | Rotating beacon with siren | 15 A |
| | Pre-installation for camper van | 30 A |
| | OLU Compute Unit | 10 A |

| No. | Consumer | Fuse rating |
|-----|---------------------------------|-------------|
| 36 | Pre-installation for camper van | 30 A |
| | OLU Compute Unit | 10 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 steps | 5 A |
| 40 | Unassigned | ATO |
| 41 | Air spring | 5 A |
| 42 | Retarder | 5 A |
| 43 | Socket, cab | 15 A |
| 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, side wall, front left | 7.5 A |
| | USB port, side wall, front left (with sliding door, left) | 5 A |
| 52 | USB port, side wall, front right | 7.5 A |
| | USB port, side wall, front right (with sliding door, right) | 5 A |
| 53 | USB port, side wall, rear left (bus) | 7.5 A |
| | USB port, side wall, rear left (Passenger Van) | 5 A |
| 54 | USB port, side wall, rear right (bus) | 7.5 A |
| | USB port, side wall, rear right (Passenger Van) | 5 A |

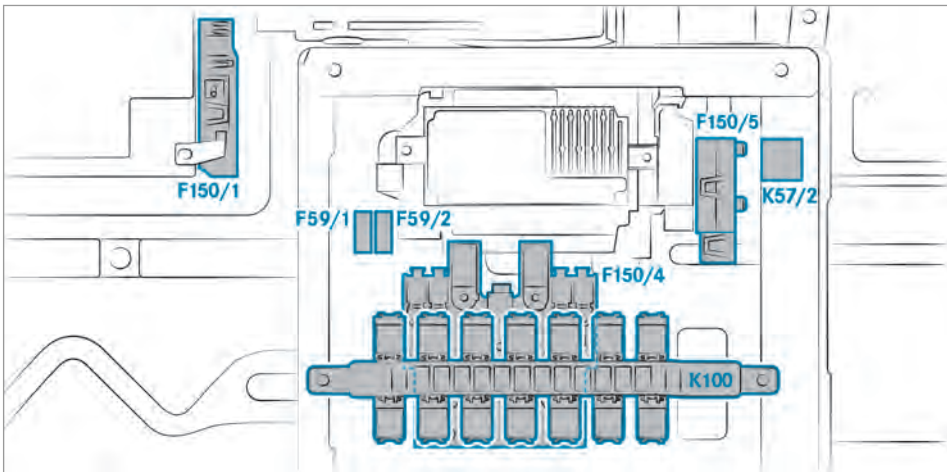
Fuses/relays in the base of the driver's seat and in the battery box

Fuse assignment

Additional fuses and relays etc. are located in the seat base of the driver's seat:

- For the windshield heater
- For other major assemblies, such as power-steering pumps, auxiliary battery, battery cutoff relays and PTC heater boosters
- From the body manufacturers for retarders, cargo liftgate, hydraulic pump and dumper vehicle

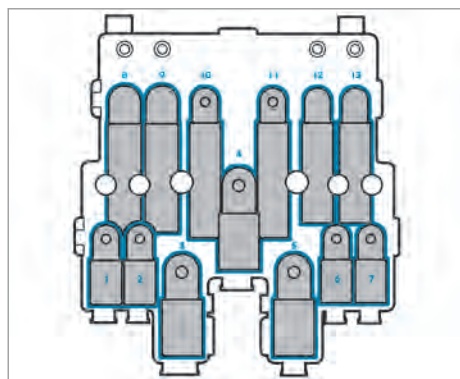
i Always have the fuses and relays in the seat base replaced at a qualified specialist workshop.



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 (fuse block F55/1 - F55/6) | 125 A |
| 2 | Electric steering | 125 A |
| 3 | Alternator | 300 A |
| | Alternator (code M60 or M61) | 400 A |
| 4 | Unassigned | |
| 5 | Power Distribution Center (PDC) | 175 A |
| 6 | Glow output stage (GZE) | 80 A |
| 7 | Mono fan, air conditioning system | 40 A |
| | Duo fan, air conditioning system | 80 A |
| | Fan, radiator OM654/M274 | 100 A |
| 8 | Camper van (fuse block F55/4) | 100 A |
| 9 | Camper van (code E1R) | 150 A |
| | Camper van (code E1Y) | 80 A |
| 10 | High performance roof-mounted air conditioning system (code HK4) | 100 A |
| | Enhanced roof-mounted air conditioning system (code H08) | 50 A |
| | Basic roof-mounted air conditioning system (code HH7) | 25 A |
| | Camper van (without roof-mounted air conditioning system) | 80 A |
| 11 | Auxiliary battery/battery cutoff relay | 150 A |
| | Retarder without auxiliary battery | 100 A |

| No. | Consumer | Fuse rating |
|-----|--|-------------|
| 12 | Air suspension/camper van (without air suspension) | 40 A |
| 13 | Windshield heater | 80 A |

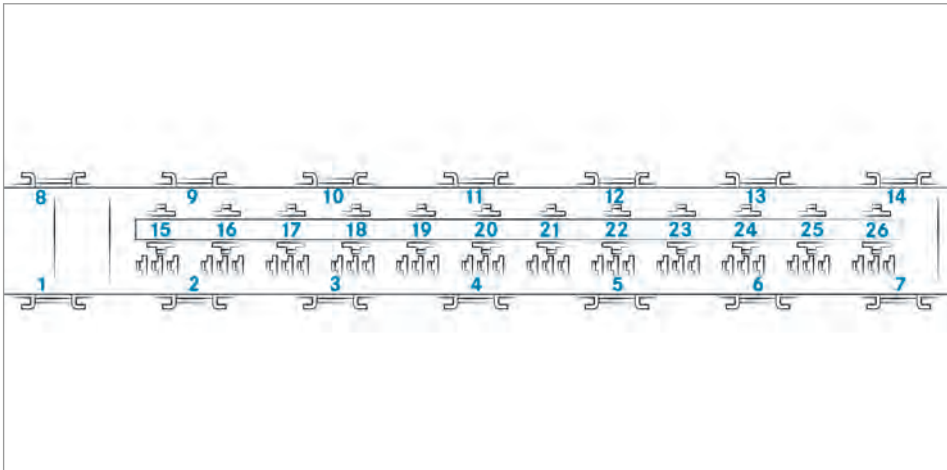
Fuse block F150/5 (MFB-ZB)

| No. | Consumer | Fuse rating |
|-----|---|-------------|
| 1 | Retarder | 100 A |
| 2 | Cargo liftgate/dumper vehicle (pre-installation) | 250 A |
| 3 | Auxiliary battery | |
| 4 | Battery cutoff relay | 150 A |
| 5 | DC/AC converter sockets with auxiliary battery | 60 A |
| 6 | Hot-air auxiliary heater with auxiliary battery | 25 A |
| | Hot air auxiliary heater, supply for additional caravanning unit with auxiliary battery | 80 A |
| | Parcel service delivery vehicle | 40 A |

Individual fuses F59/1 and F59/2

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

Relay holder K100



Right-hand-drive vehicles

| No. | Designation |
|------------------------------------|---------------------------|
| Supplementary relay, bottom | |
| 1 | Windshield heater |
| 2 | Terminal 15 |
| 3 | Rear window heater |
| 4 | Sockets, rear compartment |
| 5 | Unassigned |
| 6 | Unassigned |
| 7 | Unassigned |
| Supplementary relay, top | |
| 8 | Unassigned |
| 9 | Unassigned |
| 10 | Unassigned |
| 11 | Unassigned |
| 12 | Unassigned |
| 13 | Unassigned |
| 14 | Unassigned |
| Mini-relay | |

| No. | Designation |
|---------------------------|--|
| 15 | Rear window wiper, right |
| 16 | Terminal strip body manufacturer |
| 17 | Switch, reverse warning device |
| 18 | Roof ventilator Interior lighting |
| 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 Reading lamp, parcel service delivery vehicle |
| 25 | Rotating beacon with siren |
| 26 | Cargo liftgate Terminal 15 on auxiliary battery |
| Relay holder K57/2 | |
| | Auxiliary battery relay |

Left-hand-drive vehicles

| No. | Designation |
|------------------------------------|---|
| Supplementary relay, bottom | |
| 1 | Unassigned |
| 2 | Unassigned |
| 3 | Unassigned |
| 4 | Unassigned |
| 5 | Unassigned |
| 6 | Unassigned |
| 7 | Unassigned |
| Supplementary relay, top | |
| 8 | Windshield heater |
| 9 | Terminal 15 |
| 10 | Rear window heater |
| 11 | Sockets, rear compartment |
| 12 | Unassigned |
| 13 | Unassigned |
| 14 | Unassigned |
| Mini-relay | |
| 15 | Rear window wiper, right |
| 16 | Terminal strip body manufacturer |
| 17 | Switch, reverse warning device |
| 18 | Roof ventilator |
| | Interior lighting |
| 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 |
| | Reading lamp, parcel service delivery vehicle |
| 25 | Rotating beacon with siren |

| No. | Designation |
|---------------------------|----------------------------------|
| 26 | Cargo liftgate |
| | Terminal 15 on auxiliary battery |
| Relay holder K57/2 | |
| | Auxiliary battery relay |

F**Fuses**

Notes on fuses..... 3

Fuses on the outside of the driver's seat base

Fuse assignment..... 8

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

Fuse assignment..... 11

Relay holder K100..... 13

Fuses/relays in the front-passenger footwell

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Relay assignment..... 7

