



# Sprinter

Fuse allocation Supplement



9065843305

Order no. 6462 7709 13 Part no. 906 584 33 05 Edition 07-14



Mercedes-Benz


## Symbols


### **WARNING**





Warning notes make you aware of dangers which could pose a threat to your health or life, or to the health and life of others.

### **Environmental note**

Environmental notes provide you with information on environmentally aware actions or disposal.

 Notes on material damage alert you to dangers that could lead to damage to your vehicle.

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

-  This symbol designates an instruction you must follow.
-  Several consecutive symbols indicate an instruction with several steps.
-  (▷ page) This symbol tells you where you can find further information on a topic.
-  ▷ ▷ This symbol indicates a warning or an instruction that is continued on the next page.

**Display** This text indicates a message on the display and the rear view camera monitor.

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You are welcome to forward any queries or suggestions you may have regarding this manual to the technical documentation team at the address on the inside of the front cover.

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## Fuses

### General safety notes

#### WARNING

If you manipulate or bridge a faulty fuse or if you replace it with a fuse with a higher amperage, the electric cables could be overloaded. This could result in a fire. There is a risk of an accident and injury.

Always replace faulty fuses with the specified new fuses having the correct amperage.

Faulty fuses must be replaced with fuses of the same rating and which have the amperage specified in the following overview. Fuses of the same rating can be recognized by the color and amperage. You can obtain advice from a qualified specialist workshop.

If a new fuse blows again, have the cause determined and rectified at a qualified specialist workshop.

The fuses and relays for the standard equipment are located in the main fuse box in the footwell on the left-hand side of the vehicle.

Additional fuses and relays for the items of optional equipment are located in the fuse box under the driver's seat and in its seat base. Always have the fuses in the seat base replaced at a qualified specialist workshop.

- Switch off the ignition and the electrical consumers before changing a fuse.

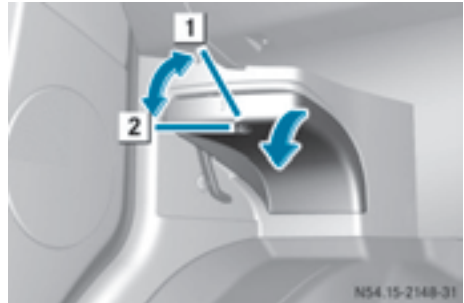
### Vehicle code

Code M16 - Proconve L6 low-emission vehicle

Code MH3 - EPA 13/CARB low-emission engine

Code XM0 - Model facelift (2013)

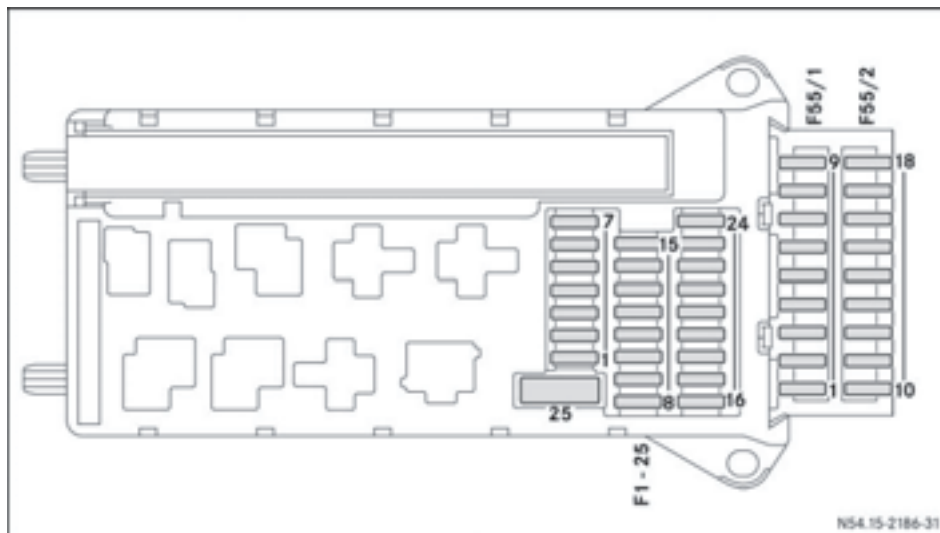
## Main fuse box



Fuse box in the footwell on the left-hand side of the vehicle.

- **To open:** unlock quick-release fastener **1** and remove the cover.
- **To close:** attach the bottom edge of the cover and fold upwards. The cover must engage.
- Lock quick-release fastener **2**.

## Configuration



## Fuses

The F87 fuse (30 A) for the DC/DC converter is under the SRB fuse and relay module in the main fuse box. Have this fuse changed at a qualified specialist workshop only.

SRB fuse and relay module

No.	Consumer	Fuse rating
1	Horn	15 A
2	ESTL (electric steering lock) ignition lock	25 A
3	Terminal 30 Z, vehicles with a gasoline engine/ignition lock/instrument cluster	10 A
4	Light switch/switch unit on center console	5 A
5	Windshield wipers	30 A
6	Fuel pump	15 A

No.	Consumer	Fuse rating
	Terminal 87 (5) <sup>1</sup>	10 A
7	MRM (jacket tube module)	5 A
8	Terminal 87 (2)	20 A
9	Terminal 87 (1)	25 A
	Terminal 87 (3), vehicles with a gasoline engine	20 A
	Terminal 87 (3), vehicles with a diesel engine	25 A
10	Terminal 87 (4)	10 A
11	Terminal 15 R vehicle	15 A
12	Air bag control unit	10 A

<sup>1</sup> Vehicles with code M16/MH3/XM0.

No.	Consumer	Fuse rating
13	Cigarette lighter/glove box lamp/radio/body manufacturer loading tailgate/PND (personal navigation device) power socket	15 A
14	Diagnostics connection/light switch/instrument cluster/deactivating reverse warning device/anti-theft protection with vehicle tracking	5 A
15	Headlamp range control/front-compartment heating	5 A
16	Terminal 87 (1) Terminal 87 (3) <sup>1</sup>	10 A
17	Air bag control unit	10 A
18	Terminal 15 vehicle/ brake light switch	7.5 A
19	Interior lighting	7.5 A
20	Front-passenger door power window switch/ terminal 30/2 SAM (signal acquisition and actuation module)	25 A
21	Engine control unit	5 A
22	Brake system (ABS)	5 A
23	Starter motor	20 A
	Terminal 87 (6) <sup>1</sup>	10 A

No.	Consumer	Fuse rating
24	Diesel engine, engine components/control unit, vehicles with a natural gas engine NGT <sup>2</sup>	10 A
25	12 V socket (center console) for tire sealant	25 A

## Fuse block F55/1

No.	Consumer	Fuse rating
1	Driver's door control unit	25 A
2	Diagnostics connection	10 A
3	Brake system (valves)	25 A
4	Brake system (delivery pump)	40 A
5	Terminal 87 (2a) engine M272, OM651	7.5 A
	Terminal 87 (2a) engine OM642, OM651 <sup>3</sup>	10 A
6	Terminal 87 (1a) engine OM642 <sup>6</sup>	10 A
	Terminal 87 (1a) engine OM651 <sup>6</sup>	7.5 A
	Terminal 87 (3a) engine M272, M271, OM651	7.5 A
7	Headlamp cleaning system	30 A

<sup>1</sup> Vehicles with code M16/MH3/XM0.

<sup>2</sup> Natural Gas Technology.

<sup>3</sup> NAFTA

<sup>6</sup> Vehicles with code XM0.

No.	Consumer	Fuse rating
8	Anti-theft alarm system (ATA)/beacon/beacon with siren	15 A
9	Additional turn signal module	10 A

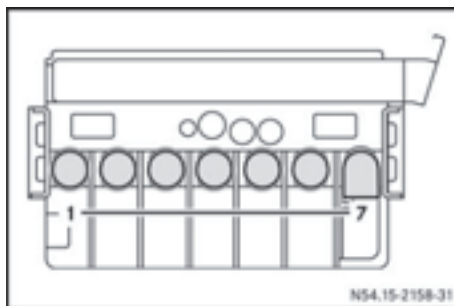
## Fuse block F55/2

No.	Consumer	Fuse rating
10	Radio 1 DIN Radio 2 DIN	15 A 20 A
11	Mobile phone/tachograph/additional recorder <sup>4</sup> /navigation cradle <sup>6</sup>	7.5 A
12	Front blower/auxiliary heating blower setting 1	30 A
13	Auxiliary heating system digital timer/radio receiver/DIN slot basic wiring/FleetBoard/anti-theft protection with vehicle tracking	7.5 A
14	Seat heating	30 A
15	Brake system control unit	5 A
16	Heating, rear compartment heating/ front-compartment air conditioning	10 A
17	Convenience lighting	10 A
	Motion detector	7.5 A

<sup>4</sup> Latin America only.

<sup>6</sup> Vehicles with code XM0.

No.	Consumer	Fuse rating
	Reading and cargo compartment lamp (courier vehicles)	10 A
	Cargo compartment lighting	7.5 A
18	Rear-compartment air-conditioning system	7.5 A

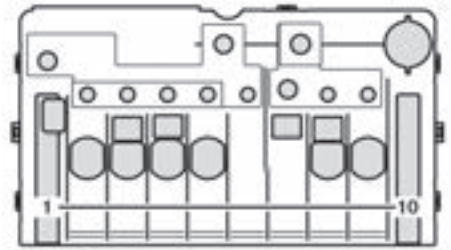


Pre-fuse box in the battery compartment in the footwell on the left-hand side of the vehicle F59

No.	Consumer	Fuse rating
1	Preglow relay	80 A
	Secondary air pump for vehicles with a gasoline engine	40 A
2	Air-conditioning system cooling fan – cab without partition and without rear-compartment air-conditioning system	60 A
	Air-conditioning system cooling fan – cab with partition and reinforced without rear-compartment air-conditioning system	40 A



No.	Consumer	Fuse rating
	Air-conditioning system cooling fan – cab/ Electrical suction fan	40 A
	Starter relay, terminal 15 <sup>6</sup>	25 A
	Starter relay unsupported <sup>6</sup>	25 A
3	SAM (signal acquisition and actuation module)/SRB (fuse and relay module)	80 A
4	Auxiliary battery/ retarder	150 A
	Rear-compartment air-conditioning system	80 A
5	Terminal 30 pre-fuse boxes, SAM (signal acquisition and actuation module)/SRB (fuse and relay module)	150 A
	Terminal 30 electrical heater booster (PTC) input <sup>6</sup>	Bridge
6	Connection point on the base of the seat	Bridge
	Pre-fuse box in the base of the seat <sup>6</sup>	Bridge
7	Rear-compartment air-conditioning system	80 A
	Electrical heater booster PTC	150 A



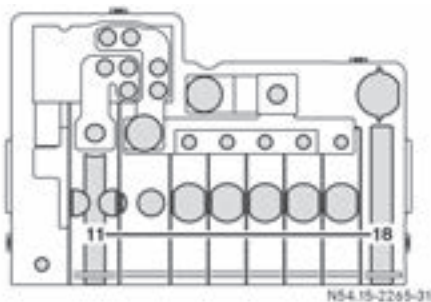
NS4.15-2266-31

Pre-fuse box at the base of the driver's seat (only for auxiliary battery) F59/7

No.	Consumer	Fuse rating
1	Unassigned	
2	SAM (signal acquisition and actuation module)/SRB (fuse and relay module)	80 A
3	Unassigned	
4	Auxiliary battery input	150 A
5	Connection point on the base of the seat Pre-fuse box at the base of the seat	Bridge
6	SAM (signal acquisition and actuation module)/SRB (fuse and relay module), terminal 30 fuse box	150 A
7	Additional battery input Connection for socket fuse on vehicles with additional battery	Bridge
8	Retarder in combination with battery cutoff relay	100 A

<sup>6</sup> Vehicles with code XM0.

No.	Consumer	Fuse rating
9	Additional battery	150 A
10	Snowplow hydraulic pump Loading tailgate Tipper	250 A

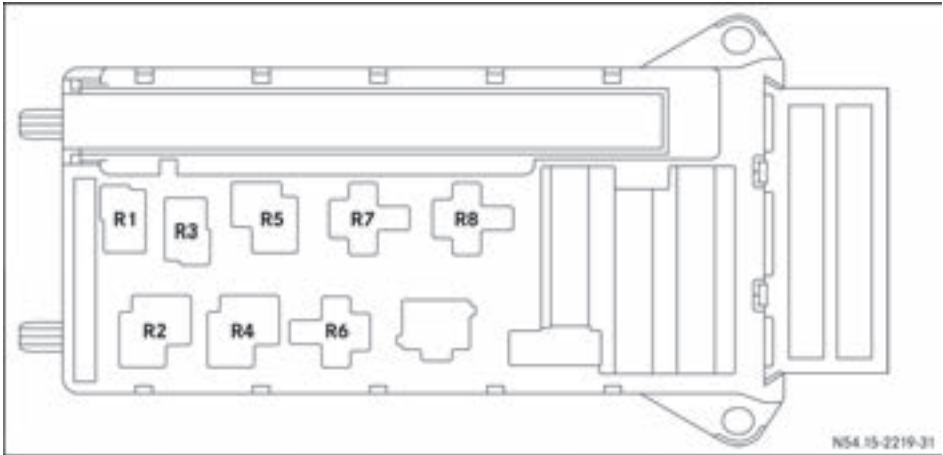


Pre-fuse box at the base of the driver's seat (only for auxiliary battery) F59/8

No.	Consumer	Fuse rating
11	Terminal 30 starter battery input	Bridge
12	Unassigned	
13	Electrical heater booster (PTC)	150 A
	Rear-compartment air-conditioning system	80 A
14	Air-conditioning system cooling fan – cab without partition and without rear-compartment air-conditioning system	60 A
	Air-conditioning system cooling fan – cab with partition and reinforced without rear-compartment air-conditioning system	40 A

No.	Consumer	Fuse rating
	Air-conditioning system cooling fan – cab open vehicle model designation	40 A
	Electrical suction fan	70 A
15	Unassigned	
16	Retarder not in combination with battery cutoff relay	100 A
	Battery cutoff relay	150 A
17	Unassigned	
18	Alternator	300 A

## Relays in the main fuse box

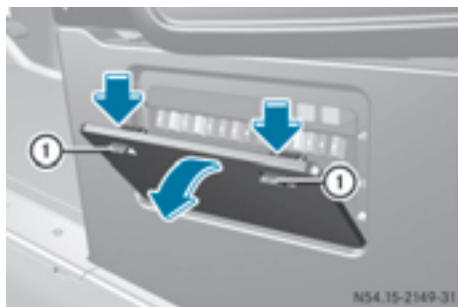


No.	Relays	Description
R1	K40/9	Horn relay
R2	K40/9	Windshield wiper setting 1/2 relay
R3	K40/9	Fuel pump relay <sup>5</sup>
	K40/9	Starter relay, terminal 15 <sup>1</sup>
R4	K40/9	Windshield wipers on/off relay
R5	K40/9	Starter relay, terminal 50
R6	K40/9	Relay, terminal 15 R (normally open contact)
R7	K40/9	Engine control unit relay, terminal 87
R8	K40/9	Relay, terminal 15 (reinforced relay)

<sup>5</sup> Not on vehicles with code MI6/MH3/XM0.

<sup>1</sup> Vehicles with code MI6/MH3/XM0.

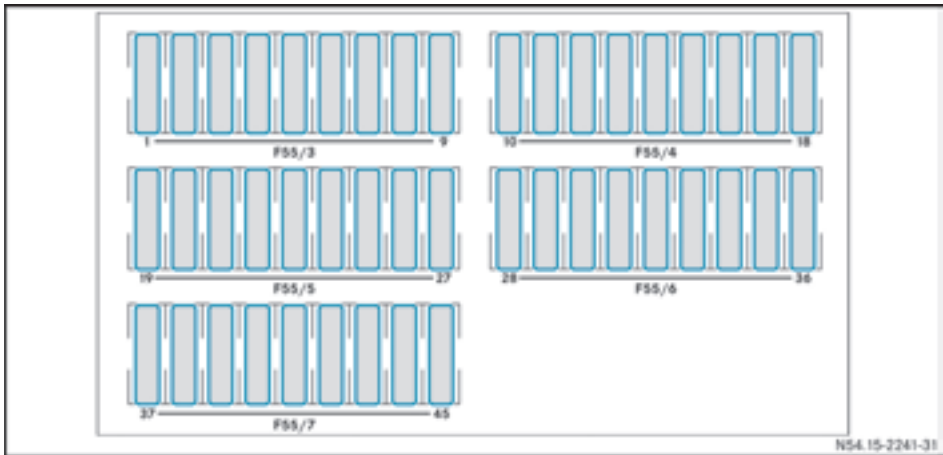
### Fuse box under the left front seat



Fuse box on the outside of the seat base

- ▶ **To open:** move the front seat to the highest position.
- ▶ Press both latching springs ① down and remove the cover.
- ▶ **To close:** attach the bottom edge of the cover and fold upwards.  
The cover must engage.

## Configuration



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## Fuses

### Fuse block F55/3

No.	Consumer	Fuse rating
1	Mirror setting/rear window defroster	5 A
2	Rear window wiper	30 A
3	Auxiliary heating, digital timer/rear view camera/neutral gate switch, starting-off aid and all-wheel drive/engine run-on/DIN slot basic wiring (roof)/FleetBoard/anti-theft protection with vehicle tracking/emergency hammer lighting in the rear compartment	5 A
4	Tachograph/ADR working speed governor/power take-off/AAG (trailer control unit)	7.5 A
5	ECO Start/control unit	5 A

No.	Consumer	Fuse rating
	EGS (electronic gearbox control)	10 A
6	All-wheel drive control unit	5 A
	Auxiliary oil pump	10 A
7	ESM (electronic selector module)	10 A
8	Loading tailgate/tipper vehicle PARKTRONIC <sup>6</sup>	10 A
9	Rear compartment air conditioning, compressor clutch, disengageable reverse warning device	7.5 A

<sup>6</sup> Vehicles with code XM0.

## Fuse block F55/4

No.	Consumer	Fuse rating
10	Terminal 30, body/equipment manufacturer	25 A
11	Terminal 15, body/equipment manufacturer	15 A
12	D+, body/equipment manufacturer	10 A
13	Fuel pump FSCM (Fuel Sensing Control Module)	20 A
	Fuel pump relay <sup>1, 3</sup>	15 A
14	Trailer power socket	20 A
15	Trailer recognition unit	25 A
16	Tire pressure monitor PARKTRONIC <sup>7</sup>	7.5 A
17	Programmable special module (PSM)	25 A
18	Programmable special module (PSM)	25 A

## Fuse block F55/5

No.	Consumer	Fuse rating
19	Overhead control panel without ATA (Anti-Theft Alarm system) and without rain sensor	5 A
	Overhead control panel with ATA (Anti-Theft Alarm system)	25 A

No.	Consumer	Fuse rating
	Overhead control panel with rain sensor	25 A
20	License plate lamp (courier vehicles)/perimeter lamp <sup>3</sup> /identification lighting <sup>3</sup>	7.5 A
21	Terminal 30, body electrics (courier vehicles)	15 A
	Rear window defroster without ATA (Anti-Theft Alarm system)	30 A
	Rear window defroster with ATA (Anti-Theft Alarm system)	15 A
22	Rear window defroster 2	15 A
	Vehicle socket (courier vehicles)	20 A
23	12 V left rear socket, load/rear compartment	15 A
	Electric system: non-MB body	10 A
24	12 V socket under the base of driver's seat	15 A
25	12 V right rear socket, load/rear compartment	15 A
26	Hot-water auxiliary heating	25 A
27	Electrical heater booster (PTC)	25 A
	Auxiliary warm-air heater	20 A

<sup>1</sup> Vehicles with code M16/MH3/XM0.

<sup>3</sup> NAFTA

<sup>7</sup> Pre-facelift vehicle.

## Fuse block F55/6

No.	Consumer	Fuse rating
28	SRB starter relay (fuse and relay module) <sup>3, 6</sup> Starter for electrical supply support using the additional battery	25 A
29	Terminal 87 (7), gas system, vehicles with a natural gas engine (NGT) <sup>2</sup>	7.5 A
	SCR <sup>8</sup> control unit, vehicles with exhaust gas aftertreatment <sup>3</sup>	10 A
	Terminal 30, all-wheel drive, control unit	30 A
30	Auxiliary heat exchanger fan	15 A
	Brake booster <sup>3</sup>	30 A
31	Rear compartment heating blower	30 A
	Sliding door closing assistance, left	15 A
	Electric sliding door, left	30 A
32	SCR <sup>8</sup> relay supply, vehicles with exhaust gas aftertreatment	5 A
	KEYLESS ENTRY	10 A
33	Electric sliding door, right	30 A
	Sliding door closing assistance, right	15 A

No.	Consumer	Fuse rating
	ENR (level control) control unit	30 A
	Compressor air suspension	30 A
34	SCR <sup>8</sup> heater 3 DEF (Diesel Exhaust Fluid) supply reservoir, vehicles with exhaust gas aftertreatment, 6 cyl. diesel <sup>9, 3</sup>	15 A
	SCR <sup>8</sup> heater 1 DEF®, vehicles with exhaust gas aftertreatment diesel <sup>10</sup>	20 A
35	SCR <sup>8</sup> heater 2 hose, vehicles with exhaust gas aftertreatment, 6 cyl. diesel <sup>9, 3</sup>	15 A
	SCR <sup>8</sup> heater 2 DEF, vehicles with exhaust gas aftertreatment diesel <sup>10</sup>	25 A
36	SCR <sup>8</sup> heater 1 delivery pump, vehicles with exhaust gas aftertreatment, 6 cyl. diesel <sup>9, 3</sup>	10 A
	SCR <sup>8</sup> heater control 3 DEF, vehicles with exhaust gas aftertreatment diesel <sup>10</sup>	15 A

<sup>3</sup> NAFTA<sup>6</sup> Vehicles with code XM0.<sup>2</sup> Natural Gas Technology.<sup>8</sup> Selective Catalytic Reduction.<sup>9</sup> Vehicles with code MH3.<sup>10</sup> Not for vehicles with code MH3.

## Fuse block F55/7

No.	Consumer	Fuse rating
37	COLLISION PREVENTION ASSIST/FCW (Forward Collision Warning)	5 A
	Blind Spot Assist/BSM (Blind Spot Monitor)	5 A
38	Multifunction camera with Highbeam Assist	10 A
	With a warning when leaving a lane	10 A
39	Body electrics (courier vehicles)	7.5 A
	Rear-compartment air-conditioning system	7.5 A
	Roof ventilator	15 A
	Siren	15 A
40	Auxiliary battery charge current <sup>11</sup>	15 A
41	SAM (signal acquisition and actuation module) auxiliary battery reference voltage <sup>11</sup>	7.5 A
42	Rear-compartment air-conditioning system	30 A
43	Electrical step/sliding door, right	10 A
44	Electrical step/sliding door, left	10 A
45	Electrical step, control system and warning buzzer	5 A

## Fuses in the seat base of the left front seat

There are additional fuses in the seat base, for example:

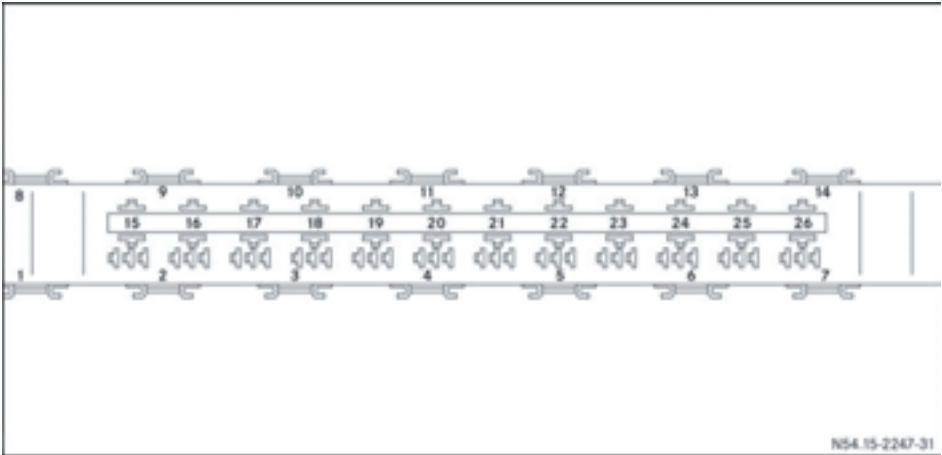
- for the rear-compartment air conditioning
- for the windshield heating
- for other vehicle components, such as power steering pumps, auxiliary batteries, battery cutoff relays and PTC heater boosters
- from the body manufacturers for retarders, loading tailgates, hydraulic pump and tipper

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

<sup>11</sup> Vehicles with auxiliary battery.



## Relays in the seat base of the left front seat



No.	Relays	Description
R1	K6	Starter relay, right-hand drive <sup>6</sup>
R2	K41	Load relief relay, terminal 15
R3	K41/5	Starter relay, terminal 15
R4	K64 K110	Secondary air injection/secondary air pump relay SCR relay <sup>8</sup> , vehicles with exhaust gas aftertreatment
R5	K27	Fuel pump relay
R6	K23/1	Blower relay, front, blower setting 1
R7	K41/2	Load relief relay, terminal 15 R
R8	K6/1 K6	Starter relay, additional battery Starter relay, left-hand drive <sup>6</sup>
R9	K13/5	Rear window defroster relay 1
R10	K13/6 K51/15	Rear window defroster relay 2 with ATA (Anti-Theft Alarm system) Snow plow relay, low-beam headlamps, left
R11	K117/3 K51/16	Electrical step relay 1, left Snow plow relay, low-beam headlamps, right
R12	K117/4	Electrical step relay 2, left

<sup>6</sup> Vehicles with code XM0.

<sup>8</sup> Selective Catalytic Reduction.

No.	Relays	Description
	K51/17	Snow plow relay, high-beam headlamps, left
R13	K41/3	Load relief relay, terminal 15 (2)
	K51/18	Snow plow relay, high-beam headlamps, right
R14	K13/7	Windshield heating relay 1
R15	K88	Body manufacturer relay, terminal 15
R16	K88/1	Body manufacturer relay, terminal 61 (D+)
R17	K95 K93	Loading tailgate basic wiring relay Comfort illumination relay
R18	K2	Headlamp cleaning system relay
R19	K51/10	Beacon with siren relay
R20	K39/3	ATA (anti-theft alarm system) relay, horn
R21	K108 K116 K23/2	Perimeter/identification lighting relay <sup>3</sup> License plate lamp relay (courier vehicles) Blower relay, hot-air auxiliary heating, blower setting 1
R22	K23/3	Blower relay, hot-air auxiliary heating, blower setting 2
R23	K39/1	Siren relay
	K124/1	Terminal 61 (D+) relay, anti-theft protection with vehicle tracking
R24	K117/1	Electrical step relay 1, right
R25	K117/2	Electrical step relay 2, right
R26	K121	Reverse warning device off relay
	K124	Anti-theft protection with vehicle tracking relay

### Other relays

No.	Relays	Description
–	K57	Battery cutoff relay, left-hand-drive vehicle
–	K57/4	Battery cutoff relay, right-hand-drive vehicle
–	K9	Air-conditioning system relay, auxiliary fan (duo)

<sup>3</sup> NAFTA

No.	Relays	Description
–	K9/2	Air-conditioning system relay, auxiliary fan (mono)
–	K9/5	Rear-compartment air conditioning relay, auxiliary fan
–	K 120	Auxiliary battery relay <sup>11</sup>

<sup>11</sup> Vehicles with auxiliary battery.





