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## *Special Equipment Handbook*

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**Model series 906**

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**Disclaimer:**

This equipment guide for the Sprinter provides you with an overview of the principal codes/equipment item available ex factory. It is intended to serve as an active selling aid when presenting sales arguments to customers.

We have described the technical features and represented them with pictures where possible.

The index shows the description of each equipment item in alphabetical order with a code. Each code description page describes the relevant equipment item in a series of brief sections.

The model line up in this guide shows each available Sprinter with model designation.

Complete 2D-drawings in [inch] are available at:

**[sprinter-engineeringcompliance.com](http://sprinter-engineeringcompliance.com)**

Sprinter Engineering Contact:

**[sprinter.engineering@daimler.com](mailto:sprinter.engineering@daimler.com)**

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The specifications, descriptions, information, and recommendations contained in this bulletin are believed to be accurate at time of publication.

Always consult with your Sprinter dealer.

(Dealer: Visit the Sprinter Product Information Tool (PIT) for the latest product information)

**PACKAGE CODES:**

PA1	PREMIUM
PA2	ACCESSORY
PA3	SUSPENSION SEATING
PB1	PARTITION W/SLIDING DOOR & SEAT
PB2	PARTITION WITH SLIDING DOOR N SEAT
PC1	CARGO PACKAGE
PC2	CONTRACTOR
PD1	MULTI-FUNCTION WHEEL/DISPLAY
PE1	FRONT BENCH SEAT
PF1	SWIVEL SEAT
PF2	WINDOW ALL AROUND (FLEET)
PF3	WINDOW PREP PACKAGE
PF4	WIDE STEP BUMPER
PF5	REAR WALL DELETION (CHASSIS CAB)
PF6	INTERIOR TRIM (FLEET)
PG1	HIGH IDLE (PRESET)
PG2	HIGH IDLE (VARIABLE)
PH1	FRONT HEATING I
PH2	FRONT HEATING II
PH3	REAR HEATING I
PH4	REAR HEATING II
PH5	REAR HEATING III
PH6	COLD CLIMATE PACKAGE
PH7	AUXILIARY HEATER REAR PREP
PH8	ROOF A/C
PH9	CREW VAN HEATING
PL1	INTERIOR LIGHTING
PL2	LIGHTING (BI-XENON)
PM1	MOBILITY PREP
PN1	WINDOW MIRROR (CHASSIS CAB)
PP1	SECURITY / ALARM PACKAGE
PR1	PARKTRONIC
PS1	SUSPENSION I
PS2	SUSPENSION II
PS3	SUSPENSION III
PS4	SUSPENSION IV
PS5	HEAVY DUTY FRONT AXLE
PT1	TRAILER HITCH
PW1	WINDOW I
PW2	WINDOW II
PW3	WINDOW III
PW4	WINDOW IV
PX1	SPARE TIRE DELETION
PY1	ADDITIONAL BATTERY

**CODE DESCRIPTION:**

A50	AXLE reinforced Front
AR2	AXLE RATIO 1-3.923
AR3	AXLE RATIO 1-4.182
BB3	ESP ELECTR. STABILITY PROGRAM
BE2	HANDBRAKE, SWIVEL SEAT
C33	REAR SPRINGS HARDER
C38	REAR SPRINGS (Single)
C39	Springs - Rear(Dual)
C40	STABILIZER FRONT-AXLE
C42	STABILIZER BAR - REAR
C43	REAR-AXLE STABILIZER REINFORCED LOW
C45	STABILIZER BAR - Reinforced Front
C47	SHOCK ABSORBERS REINFORCE
C72	BUMPERS FRT/RR PRIMED
CE6	STABILIZER FOR CAMPER BODY
CE8	Higher Rear Body Mounts
CF2	Suspension w/Frt & Rr Stabilizer
CF3	Suspension w/H.D. Rr Stabilizer
CF4	Suspension w/H.D. Frt & Rr Stabilizers
CF5	Suspension - High Center of Gravity
CF6	Springs & Shocks - Front Heavy Duty
CL1	ADJUSTABLE STEERING WHEEL
CL4	STEERING WHEEL MULTI FUNC
CM9	PAINTABLE MOLDING
CT1	SPRING DAMPING
D03	ROOF - HIGH
D13	ROOF RAILS
D22	SUNROOF - FIXED REAR
D24	SUNROOF REAR ELECT TILT/SLIDE
D27	SUNROOF- FRONT ELECT/TILT/SLIDING
D50	CARGO PARTITION
D51	CARGO PARTITION W/ FIXED WINDOW
D53	CARGO PARTITION W/ SLIDING WINDOW
D62	CARGO PARTITION PROVISIONS
D64	CARGO PARTITION W/ SLIDING DOOR
D93	CARGO PARTITION - None
E07	START OFF ASSIST
E28	BATTERY 100 AMP AUXILIARY
E30	BATTERY DISCONNECT
E36	RELAY - AUX BATTERY DISCONNECT
E40	WIRE HARNESS - TRAILER (W/7 PIN CONN)

E46	12V POWER OUTLET-DRV SEAT BASE	H13	HEATER - AUXILIARY REAR
ED4	BATTERY (AGM) 95 AMP DEEP DISCHARGE	H15	SEAT - HEATED PASSENGER
ED5	PARAMETRIC SPECIAL MODULE	H16	SEAT - HEATED DRIVER
ED8	PARAMETRIC SPECIAL MODULE -PREP	H20	Windshield - Tinted
EE8	BATTERY 100 AMP	H21	WINDSHIELD - W/Filter Band
EJ3	RADIO AM/FM, MP3, 6 CD changer, W/BLUETOOTH	H22	DEFROSTER - REAR WINDOW
EK1	Body Builder connector under driver seat	H50	FAN - NON-POWERED, ROOF
EL8	RADIO SPEAKERS 5 FRONT	H72	FAN - ELECTRIC ROOF
EL9	RADIO SPEAKERS 5 FRONT & 8 REAR	H88	Rear Heater Prep
EN0	RADIO AM/FM CD, MP3	HH2	Heater - Auxiliary ELECT HOT-AIR
ER0	RADIO PREP	HH9	AIR CONDITIONING - FRONT
ES0	JUMP START TERMINAL	HY1	REMOTE CONTROL AUX HTR
ES2	12V POWER OUTLET REAR COMPARTMENT	HZ5	HEATER AUX WARM WATER W/TIMER 10KW
EZ8	PARKING AID SYSTEM FRT&RR	HZ9	HEATER BOOSTER 5KW
F35	WINDOW REAR - CHASSIS CAB	J11	SPEEDOMETER KM/MILES
F46	HEAD LAMP CLEANING SYSTEM	J58	WARNING SYSTEM-DRV SEAT BELT
F49	WINDSHIELD HEATED	J65	TEMPERATURE GAUGE
F61	MIRROR - REAR VIEW DAY/NIGHT	JA5	LIGHT AND RAIN SENSOR
F66	GLOVE BOX LOCKABLE	JK3	I/P CLUSTER PIXEL MATRIX
F68	EXTERIOR MIRROR - POWER/HEATED	JW0	ALARM - REAR BACKUP
FF3	CUP HOLDER PASS COMPARTMENT	JW2	Deactivate Lamp Monitoring Failure
FF4	SHELF ABOVE ROOF TRIM	K60	EXHAUST STRAIGHT TO REAR
FF5	SHELF ABOVE WINDSCREEN	KB0	FUEL TANK - 26.4 GALLON
FF8	STORAGE SLOT AT FRONT U/ROOF LINER	KL1	AUX FUEL SENDING UNIT
FI3	Tire Pressure Monitoring Frequency	KL5	FUEL FILTER W/WATER SEPAR
FJ1	I/P HINGED LID-CENTER STACK BIN	KP2	DEF TANK - SMALL 3.2 GALLONS
FK3	CHROME TRIMMED RADIATOR GRILLE	L05	DAYTIME RUNNING LAMPS
FR7	BACK UP CAMERA WIRING PREP	L16	FOG LAMPS
FR8	BACK UP CAMERA	L49	LAMPS - IDENTIFICATION, ROOF MOUNTED
FS2	EXTERIOR MIRROR EXTENDED ( 96")	L63	LIGHT - LOAD COMPARTMENT
FW1	REAR WALL DELETED-CHASSIS CAB	L65	LAMPS - CARGO COMPARTMENT
FY1	SECURITY ALARM	L71	LIGHT-MOTION SENSOR LOAD COMP
FZ9	KEYS - TWO ADDITIONAL MASTERS	L72	WIRING FOR INTERIOR LIGHTING
G40	TRANSMISSION - FIVE SPEED AUTO	L76	WIRE HARNESS TAIL LAMP W/EXT WIRING
H00	Heater AIR DUCT PASS COMP	L77	WIRING FOR ADDITIONAL TURN SIGNALS
H01	INSULATION - REAR	L90	TAIL LAMP DELETED
H04	INSULATION - FRONT	L94	NO PARKING LAMPS
H08	AIR CONDITIONING - REAR	LB5	LAMP - CENTER HI-MOUNTED
H12	HEATER - AUXILIARY FRONT 5KW	LB9	ILLUMINATED EXIT
		LD0	OVERHEAD CTL PANEL W/2LAMPS
		LD1	CARGO LAMP

LD4	LIGHTS-CONVENIENCE LOAD/PASS COMPARTMENT	S20	SEAT - PASSENGER JUMP
LG0	Head Lamps - BI-XENON - U.S.	S22	SEAT ARMREST - DRIVER SEAT
LG1	Head Lamps - BI-XENON - Canada	S23	Seat - Two Passenger Front Bench
LV6	THIRD BRAKE LIGHT PREP	S25	SEAT ARMREST - PASSENGER SEAT
LV7	CLEARANCE LIGHT PREP	S62	Orange Seat Belt
M46	ALTERNATOR 220 AMP	S78	Seat Assist HANDLE
M53	IDLE CONTROL - PRESET	S87	Seat - Suspension base driver
MD3	TOP-SPEED LIMITATION TO 74 MPH	S88	Seat - Suspension base passenger
MG5	Engine - 3.0 Turbo Diesel BlueTec	S90	Seat - Driver Deletion
MS1	CRUISE CONTROL	S91	Seat - Passenger Deletion
MT4	IDLE CONTROL - ADJUSTABLE	S99	SEAT RISER - PASSENGER DE
N62	Bracket for Aux Alternator	SA5	AIR BAG - DRIVER
N63	BRACKET FOR AUX A/C COMPRESSOR	SA6	AIR BAG - PASSENGER
P08	COVER FOR TRANSPORT	SB1	SEAT - LUXURY BUCKET DR
P47	MUD FLAPS - FRONT	SB2	SEAT - LUXURY BUCKET PASSENGER
P48	MUD FLAPS - REAR	SB3	SEAT - SUSPENSION - DRIVER
P93	ANCHORING floor lugs Deletion	SB4	SEAT - SUSPENSION - PASSENGER
Q18	REAR CROSS MEMBER BOLTED	SD0	SEAT - CHILD ISOFIX ATTACHMENTS
Q24	TRAILER HITCH	SD2	SEAT BELT MOUNT DELETION
Q67	TOW HOOK REAR	SH6	AIR BAG - THORAX DRV(BACKREST)
Q72	REAR CROSSMEMBER DELETED	SH7	AIR BAG - THORAX DRV/CO-DRV
R60	SPARE WHEEL CARRIER PROV. TO FRAME	SH9	AIR BAG - WINDOW DRV&FRT PASS
R65	TIRE CARRIER - UNDERSLUNG	SR8	Seat Swivel Base - Driver
R87	WHEEL - SPARE STEEL	SR9	Seat Swivel Base - Passenger
R91	SPARE WHEEL DELETED	SZ7	Seatback Map Pocket - driver
R92	WHEEL SPARE TIRE CARRIER DELETED	SZ8	Seatback Map Pocket - passenger
R98	WHEELS - PAINTED JET BLACK	T09	SLIDING DOOR EXT TRACK
RD9	Tire Brand - Unspecified	T12	SLIDING DOOR - TWO STAGE OPENING
RF1	TIRE BRAND - CONTINENTAL	T16	SLIDING DOOR - RT SIDE
RH0	TIRE BRAND - KUMHO	T19	SLIDING DOOR - LT SIDE
RH7	TIRES LT215/85 R16	T74	ASSIST HANDLE - SLIDING DOOR
RH8	TIRES LT245/75 R16	T77	Assist HANDLE W/PARTITION
RL5	WHEEL LIGHT ALLOY 6.5JX16	T85	ASSIST HANDLE - LEFT, REAR DOOR
RM0	TIRES ALL SEASON	T86	ASSIST HANDLES - Right, REAR DOOR
RM1	TIRES MUD & SNOW	T93	Sliding Door - Right Side Delete
RM2	WHEELS - PAINTED ARTIC WHITE	U62	SEAT - 1ST ROW, 3PASS BENCH
RM9	MAKE OF TIRES AS AN OPTION	U74	SEAT ARMREST - REAR SEATS LEFT
RR7	AIR COMPRESSOR AND TIRE SEALANT	U75	SEAT ARMREST - REAR SEATS RIGHT
RS3	WHEEL STEEL 6.5 X 16	UC3	SEAT - 2nd ROW, 3PASS BENCH
RS6	WHEEL STEEL 5.5 X 16	UD6	SEAT - 3rd ROW, 4 Passenger Bench
RY2	TIRE PRESSURE MONITOR LAMP	V07	Rear Wall Liner - Partition/Cab Back
S04	Front Passenger Seat	V21	INTERIOR PANELING LUXURY
		V25	Side Wall Paneling - Waist High hardboard
		V31	Window Trim

V36	Head Liner	W27	WINDOW LEFT REAR FIXED
V40	PASSENGER VAN FLOOR	W28	WINDOW RIGHT REAR FIXED
V42	CARGO LASHING RAILS - WAISTLINE	W33	WINDOW - Left Side Front EMERGENCY EXIT
V43	WOOD FLOOR	W54	Rear Doors 270 Degree Opening
V46	FLOOR COVERING - RUBBER	W61	WINDOWS- REAR DOORS
V58	DELETION OF ROOF CLEARANCE LAMPS	W70	WINDOWS WITH BLACK GLASS
V64	ASH TRAYS - REAR	W73	BUMPER REAR- GRAY STEP PAD
V85	ASH TRAYS - FRONT	W75	BUMPER - WIDE METAL
V93	WOOD FLOOR, DELETE	W76	REAR BUMPER - SPIER
V97	FRONT FLOOR MAT DELETE	W78	WINDOW RR DOOR W/WASH-WIPE
VA1	Side Wall Paneling - Waist High PVC	W94	Window Openings w/o Glass
VA3	Side Wall Paneling - Full Hardboard	X90	BADGING - REAR DOOR DELETION
VA7	STOWAGE NET IN HINGED RR DOORS	X93	BADGING - SIDE DOOR DELETION
VC4	CARGO LASHING RAILS - UPPER	XL8	GVWR 8,550 LBS
VC5	DOOR SILL PROTECTIVE EDGE	XB3	GVWR 9,990 LBS
VH5	Seat fabric Lima black	XB5	GVWR 11,030 LBS
VU9	SEATS VINYL BLACK	Y10	FIRST-AID KIT
VV2	CARGO LASHING RAILS - FLOOR	Y26	WHEEL CHOCKS
W02	WINDOWS ALL AROUND - Cargo van	Y43	JACK - HYDRAULIC
W16	WINDOW - LEFT SIDE FRONT - Fixed Glass	Y45	ROAD HAZARD LAMP
W17	WINDOW - RIGHT SLIDING DOOR	YK3	Cargo Straps - D Rings
W22	WINDOW LEFT CENTER FIXED	YK4	Cargo Straps - Lashing Rails
W23	WINDOW RIGHT CENTER FIXED	ZE6	SHELVING PREP

Vehicle and model designation

<b>2500 Cargo SPRINTER with 8550 GVWR</b>		
<p>906.633 144" WB Low roof</p>		
<p>906.633 (D03) 144" WB High Roof</p>	<p>906.635 (D03) 170" WB High Roof</p>	<p>906.637 (D03) 170" WB ext High Roof</p>
<b>2500 Passenger SPRINTER with 8550 GVWR</b>		
<p>906.733 144" WB Low Roof</p>		
<p>906.733 (D03) 144" High Roof</p>	<p>906.735 (D03) 170" WB High Roof</p>	

3500 Cargo SPRINTER with 9990 GVWR		
<p>906.653 (D03) 144" WB High Roof</p>	<p>906.655 (D03) 170" WB High Roof</p>	<p>906.657 (D03) 170" WB ext High Roof</p>

3500 Cargo SPRINTER with 11030 GVWR		
<p>906.653 (XB5, D03) 144" WB High Roof</p>	<p>906.655 (XB5, D03) 170" WB High Roof</p>	<p>906.657 (XB5, D03) 170" WB High Roof</p>

3500 Chassis Cab SPRINTER with 11030 GVWR	
<p>906.153 144" WB Low Roof</p>	<p>906.155 170" WB Low Roof</p>

3500 Heavy Duty Cargo Van 11,030 GVWR is sales code

Body code	GVWR
XB5	11030

## Vehicle and model designations

Mercedes Model	Freightliner Model	Description
M2CA144	F2CA144	SPRINTER 2500 Van 144" WB
M2CA170	F2CA170	SPRINTER 2500 Van 170" WB
M2CA170E	F2CA170E	SPRINTER 2500 Van 170" WB Ext
M3CA144	F3CA144	SPRINTER 3500 Van 144" WB
M3CA170	F3CA170	SPRINTER 3500 Van 170" WB
M3CA170E	F3CA170E	SPRINTER 3500 Van 170" WB Ext
M2PV144	F2PV144	SPRINTER 2500 Passenger Van 144" WB
M2PV170	F2PV170	SPRINTER 2500 Passenger Van 170" WB
M3CC144	F3CC144	SPRINTER 3500 Chassis Cab 144" WB
M3CC170	F3CC170	SPRINTER 3500 Chassis Cab 170" WB
M2CV144	F2CV144	SPRINTER 2500 Crew Van 144" WB
M3CV170	F3CV170	SPRINTER 3500 Crew Van 170" WB



# Package Codes

**PA1 – PY1**

## Premium Package



### Details & Technology

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- F68 Heated and electrically adjustable exterior mirrors
- MS1 Cruise control
- SB1 Comfort driver's seat
- SB2 Comfort passenger seat

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Accessory Package



### Details & Technology

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F46 Headlamp washing system

JA5 Light and rain sensor

L16 Fog lamps

LG0 Bi-xenon headlamps

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Comfort Seating Package



### Details & Technology

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- S87 Driver's seat frame, low
- S88 Passenger seat frame, low
- SB3 Driver suspension seat, comfort version
- SB4 Passenger suspension seat, comfort version

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Partition with Sliding Door & Jump Seat Package



### Package Content

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- D64 Bulkhead with sliding door
- S20 Passenger seat foldable
- S99 Seat pedestal - passenger deletion
- T77 Assist handle w/ partition

**Note:**

If no partition mounted jump seat S20 is required see option package PB2.

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Partition with Sliding Door without Jump Seat Package



### Package Content

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- D64 Bulkhead with sliding door
- S91 Passenger seat deleted
- S99 Seat pedestal - passenger deletion
- T77 Assist handle w/ partition

**Note:**

See option PB1 if a partition wall mounted jump seat is required

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Cargo Package I



### Package Content

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- T85 Assist handle, left rear door
- T86 Assist handles, right rear door
- VA3 Side wall paneling full hardboard
- VV2 Load securing rail system
- YK3 Cargo straps - D-rings
- YK4 Cargo straps - lashing rails

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Contractor Package



### Package Content

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- E28 Additional battery for retrofit
- E36 Cutoff relay for additional battery
- E46 12 V Power outlet driver seat base
- FZ9 Keys - Two additional masters

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.



## Multi-function Wheel/Display Package



### Package Content

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- CL4 Multifunction steering wheel wit
- JK3 Instrument cluster w/pixel-matrix display

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Front Bench Seat Package



### Package Content

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- S23 Twin co-driver seat
- S78 Assist handle for inner seat

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Swivel Seat Package (Fleet Only)



### Details & Technology

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- BE2 Handbrake lever, folding
- S87 Driver's seat frame, low
- S88 Passenger seat frame, low
- SB1 Comfort driver's seat
- SB2 Comfort passenger seat
- SD2 Seat belt mount deletion
- SR8 Swivel base for driver's seat
- SR9 Swivel base for passenger seat

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Window Fleet Package (Fleet Only)



### Details & Technology

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- H22 Defroster - rear window
- VA7 Stowage compartment with net in rear doors
- W02 Panel van w/windows all round
- W16 Fixed window at front left sidewall in left side sliding load compt door
- W17 Fixed window at front right sidewall in right side sliding load compt door
- W22 Fixed window, center left
- W23 Fixed window, center right
- W27 Fixed window, rear left
- W28 Fixed window, rear right
- W61 Windows in tailgate/rear doors

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Window Prep Package (Fleet Only)



### Package Content

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H22	Defroster - rear window
P08	Cover for transport
VA7	Stowage compartment with net in rear doors
W02	Panel van w/windows all round
W16	Fixed window at front left sidewall in left side sliding load compt door
W17	Fixed window at front right sidewall in right side sliding load compt door
W22	Fixed window, center left
W23	Fixed window, center right
W27	Fixed window, rear left
W28	Fixed window, rear right
W61	Windows in tailgate/rear doors
W94	Window openings w/o glass

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Wide Step Bumper Fleet Package (Fleet Only)



### Package Content

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- R91 Spare wheel deletion
- R92 Spare tire carrier deletion
- W75 Step, wide, at rear end

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Rear Wall Deletion Package (Fleet Only)



### Package Content

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FW1 Rear wall deletion - Chassis cab

P08 Cover for transport

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Interior Trim Package (Fleet Only)



### Package Content

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- V21 Luxury interior Trim
- V36 Roof trim
- V64 Ashtrays, rear
- VA7 Stowage compartment with net in rear doors

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.



## High Idle Fixed Package



### Package Content

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ED5 Parameteric special module (PSM)

M53 High idle preset

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## High Idle Adjustable Package



### Package Content

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ED5 XCF Parametric special module (PSM)

MT4 NXF High idle - driver adjustable

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Front Heating Package I



### Package Content

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- H04 Insulation for front compartment
- H12 Heater - auxiliary front 5 kW [17,000 BTU]
- V07 Rear wall liner - partition cab back

**Note:**

As of 01/2010 US emission regulations require the heater to be only operational with outside temperatures below  $< 4^{\circ}\text{C}$  ( $39.2^{\circ}\text{F}$ ).

### Description

---

- H12 - works for 60 min with or without engine running May be use as engine pre-heater

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Front Heating Package II



### Package Content

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- H04 Insulation for front compartment
- HZ9 Heater booster, 5kW [17,000 BTU]
- V07 Rear wall liner - partition cab back

**Note:**

As of 01/2010 US emission regulations require the heater to be only operational with outside temperatures below  $< 4^{\circ}\text{C}$  ( $39.2^{\circ}\text{F}$ ).

### Description

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- HZ9 - Automatically on if coolant is under  $165^{\circ}\text{F}$ . Can be switched on whenever the engine is running.

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Rear Heating Package I



### Package Content

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- H01 Insulation for rear compartment
- H04 Insulation for front compartment
- H13 Heater - auxiliary rear
- HZ9 Heater booster 5kW (17,000 BTU)

**Note:**

As of 01/2010 US emission regulations require the heater to be only operational with outside temperatures below  $< 4^{\circ}\text{C}$  ( $39.2^{\circ}\text{F}$ ).

### Description

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- H13 - Connected to the water circuit in parallel with the front-end heat exchanger. Outlet on side wall behind driver seat. Engine running only.
- HZ9 - Automatically on if coolant is under  $165^{\circ}\text{F}$ . Can be switched on whenever the engine is running.

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Rear Heating Package II



### Package Content

---

- H01 Insulation for rear compartment
- H04 Insulation for front compartment
- H12 Heater - auxiliary front 5 kW (17,000 BTU fuel fired)
- H13 Heater - auxiliary rear

**Note:**

As of 01/2010 US emission regulations require the heater to be only operational with outside temperatures below  $< 4^{\circ}\text{C}$  ( $39.2^{\circ}\text{F}$ ).

### Description

---

- H12 - works for 60 min with or without engine running May be use as engine pre-heater
- H13 - Connected to the water circuit in parallel with the front-end heat exchanger. Outlet is on side wall behind driver seat.

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Rear Heating Package III



### Package Content

---

- H04 Insulation for front compartment
- H13 Heater - auxiliary rear
- HY1 Remote control auxiliary heater
- HZ5 Water auxiliary heater with timer (10kW / 34,000 BTU)

**Note:**

As of 01/2010 US emission regulations require the heater to be only operational with outside temperatures below  $< 4^{\circ}\text{C}$  ( $39.2^{\circ}\text{F}$ ).

### Description

---

- HZ5 - The dual-function water auxiliary heater operates both as a heater booster and as an auxiliary (stationary) heater. Fuel fired.
- H13 - Connected to the water circuit in parallel with the front-end heat exchanger. Outlet is on side wall behind driver seat.
- For extreme cold areas

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Cold Climate Package



### Details & Technology

---

F49 Electrically Heated Windshield

H15 Heated Co-Driver Seat

H16 Heated Driver Seat

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.



## Auxiliary Heating Package



### Package Content

---

H12 Heater - auxiliary front 5 kW

H88 Rear heater-prep

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## High Performance Rear Air Conditioning Package



### Package Content

---

#### Passenger Van:

ED4 AGM battery 12 V 95 Ah

H08 High performance passenger compartment air conditioning

#### Cargo and Crew Van:

ED4 AGM battery 12 V 95 Ah

HH0 High performance passenger compartment air conditioning

HH5 High performance passenger compartment air conditioning

#### Note:

Because of a different documentation on Cargo and Crew Vans: HH0 + HH5 = H08

### Remarks

---

#### Caution:

Increases the overall height of the vehicle by approx. 220 mm [approx 9inches]. See H08.

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Crew Van Heating Package



### Package Content

---

- H01 Insulation for rear compartment
- H04 Insulation for front compartment
- HZ9 Heater booster 5kW

**Note:**

As of 01/2010 US emission regulations require the heater to be only operational with outside temperatures below  $< 4^{\circ}\text{C}$  ( $39.2^{\circ}\text{F}$ ).

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Interior Light Package



### Details & Technology

---

- L63 Ceiling lamp in loading compartment
- LB9 Illuminated exits
- LD0 Overhead control panel with 2 reading lights

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Lighting Package



### Package Content

---

LG0 Bi-xenon headlamps U.S.

F46 Headlamp washing system

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

**Clearance Lamps Package****Remarks**

Vehicle marker and clearance lamps are required by law on all vehicles with a total width of 80 inch and above according to FMVSS/CMVSS standards. The lamps can be deleted with option V58.

## Mobility Prep Package



### Details & Technology

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- D03 High roof
- E28 Battery 100 Amp Auxiliary
- E36 Cutoff relay for additional battery
- E46 12 V Power outlet driver seat base
- ED5 Parameteric special module
- ES2 12 V Power outlet rear compartment
- H00 Warm/cool air duct to passenger compartment
- H22 Defroster - rear window
- V31 Window Pillar trim
- V36 Roof trim
- VA1 Side wall paneling waist height PVC
- VA7 Stowage compartment with net in rear doors
- W02 Panel van w/windows all round
- W16 Fixed window at front left sidewall in left side sliding load compt door
- W17 Fixed window at front right sidewall in right side sliding load compt door
- W22 Fixed window, center left
- W23 Fixed window, center right
- W27 Fixed window, rear left
- W28 Fixed window, rear right
- W61 Windows in tailgate/rear doors

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Window and Mirror Package



### Package Content

---

F35 Window in cab rear wall

F61 Interior Mirror

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.



## Security Package



### Package Content

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- FY1 Alarm with interior motion sensor
- RR7 Air compressor and tire sealant
- SH7 Airbag, driver/passenger thorax
- SH9 Airbag, driver/passenger window
- Y10 First-aid kit

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Parktronic Package



### Package Content

---

- EZ8 Parktronic System (PTS)
- F68 Heated and electrically adjustable exterior mirrors

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

**Suspension Package I High Center of Gravity**



**Package Content**

---

- CF4 Suspension w/ HD Frt & Rr Stabilizer
- CF6 Springs and dampers, front, reinforced (see below)
- C42 Stabilizer, rear axle, under frame
- C43 Stabilizer rear axle reinforced
- C45 Stabilizer reinforced at front

**Note:**

For 2500 Cargo Vans with 144 wheelbase order CF4

**Remarks**

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

**Recommended for:**

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**Chassis Cab:**

- Ambulance
- Armored Vehicles
- Shuttle Bus
- Box Body
- Refrigeration Vehicle



**Cargo Van:**

- Shuttle Bus
- Refrigeration Vehicle
- Armored Vehicles
- Tail lift
- Mobile work shops
- RV's on cargo van

## Suspension Package II High Center of Gravity



### Package Content

---

- C33 Rear springs harder
- CF5 Suspension – High Center of Gravity (see below)
- CF6 Springs and dampers, front, reinforced

**Note:**

Chassis Cab only suspension

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

### Recommended for:

---

**Chassis Cab:**

- RV's
- Box Bodies with Tail Lift
- All vehicles with high center of gravity will benefit

## Suspension Package III



### Package Content

---

- C43 Springs and dampers, front, reinforced
- C45 Stabilizer rear axle, under frame
- CF2 Chassis for application C (see below)

**Note:**

PS3 is standard on 2500 Cargo Van with 144 wheelbase

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

### Recommended for:

---

**Chassis Cab (standard equipment):**

- Platform Bodies
- Stake Bodies

**Cargo Van:**

- Ambulance

## Suspension Package IV



### Package Content

---

CF3 Suspension w/Heavy Duty Rear Stabilizer

C43 Stabilizer rear axle reinforced

C45 Stabilizer reinforced at front

**Note:**

3500 Sprinter Cargo & Chassis Cab only

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

### Recommended for:

---



**Chassis Cab:**

- Refrigeration vehicles with built-in shelving.
- Car transporter

## Heavy Duty Front Axle Package



### Package Content

---

- A50 Front axle reinforced
- CF6 Springs and dampers, front, rein

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

### Recommended for:

---

- RV's
- Armored Vehicles
- Ambulances
- Shuttles

## Trailer Hitch Package



### Details & Technology

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E40 Trailer hitch package

QA2 Trailer cross member

**Note:**

Depending on model the towing capacity will be 5,000 lbs or 7,500 lbs.

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.



## Window Package I



### Details & Technology

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W16 Fixed window at front left sidewall in left side sliding load compartment door

W17 Fixed window at front right sidewall in right side sliding load compartment door

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Window Package II



### Details & Technology

---

VA7 Stowage compartment with net in rear doors

W17 Fixed window at front right sidewall in right side sliding load compartment door

W61 Windows in tailgate/rear doors

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Window Package III



### Details & Technology

---

VA7 Stowage compartment with net in rear doors

W16 Fixed window at front left sidewall in left side sliding load compt door

W61 Windows in tailgate/rear doors

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Window Package IV



### Details & Technology

---

- VA7 Stowage compartment with net in rear doors
- W16 Fixed window at front left sidewall in left side sliding load compt door
- W17 Fixed window at front right sidewall in right side sliding load compt door
- W61 Windows in tailgate/rear doors

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Spare Tire Deletion Package



### Package Content

---

R91 Spare wheel deletion

R92 Spare tire carrier deletion

### Remarks

---

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Additional Battery Package



### Package Content

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- E28 Battery 100 Amp Auxiliary
- E36 Cutoff relay for additional battery

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

# Code Description

**A50 – ZE6**

## Higher-capacity front axle



### Details & Technology

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On all 3500 vehicles with 9,990 lbs and 11,030 lbs gross vehicle weight rating GVWR, the front gross axle weight rating GAWR is increased from the standard 4,080 lbs to 4,410 lbs.

### Benefits

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- Allows installation of heavier bodies and equipment
- Axle has a higher load rating

The higher-capacity front axle allows heavier cabs and special equipment

### Remarks

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Recommended for:

- RV
- Armored Vehicles
- Ambulances
- Shuttles buses and vans
- All vehicles with a need for higher front axle load rating



## Axle Ratio 3.923 : 1



### Details & Technology

Each vehicle is specified with an appropriate final-drive ratio. However, depending on the actual operating profile, another ratio may be more appropriate. With this code a final-drive ratio of 3.923 : 1 is specified. The rigid rear axle is equipped with disc brakes and a separate duo servo drum parking brake.

### Benefits

- improved fuel economy

A lower final-drive ratio provides more torque at the wheels and is recommended e.g. for frequent hill-climbing or if the vehicle will be regularly used for trailer towing.

### Remarks

Standard on 2500 models.

## Axle Ratio 4.182 : 1



### Details & Technology

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Each vehicle is specified with an appropriate final-drive ratio. However, depending on the actual operating profile, another ratio may be more appropriate.

With this code a final-drive ratio of 4.182 : 1 is specified. The rigid rear axle is equipped with disc brakes and a separate duo servo drum parking brake.

### Benefits

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- Application-matched torque and maximum speed

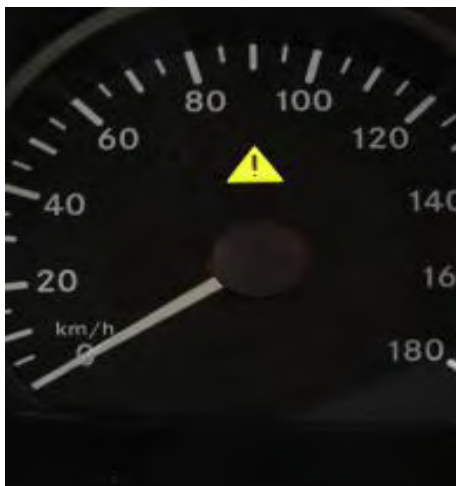
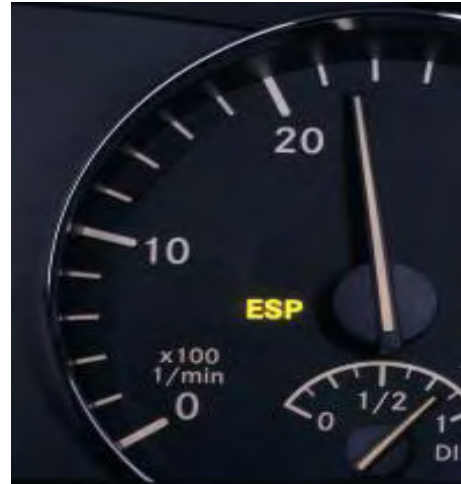
A lower final-drive ratio provides more torque at the wheels and is recommended e.g. for frequent hill-climbing or if the vehicle will be regularly used with a trailer.

### Remarks

---

Standard equipment on 3500 models.

## Electronic Stability Program (ESP®) - Adaptive



### Details & Technology

The adaptive Electronic Stability Program (ESP®) consists of the following functions:

**EBD** - electronic brake force distribution:

This system helps to prevent the rear wheels from locking before the front wheels, when braking.

**ABS** anti-lock braking system:

Helps to prevent the wheels from locking.

**ASR** acceleration skid control:

Regulates wheelspin by intervening in the engine management and by braking the driving wheels. A deactivation switch allows engine intervention to be switched off at lower speeds and the slip threshold to be raised.

**BAS - Brake Assist:**

If an emergency braking situation is detected, this system actively increases braking pressure up to the slip threshold.

**ROM - Roll Over Mitigation:**

This system helps to detect rollover tendencies during maneuvers with low road speed and high lateral acceleration.

**RMI - Roll Movement Intervention:**

This system helps to detect rollover tendencies in dynamic maneuvers and in high-speed evasive maneuvers with a high lateral acceleration.

**LAC - Load Adaptive Control:**

The system helps determine the gross vehicle weight and supports the ESP function, depending on the vehicle load.

**EUC - Enhanced Understeering Control:**

The system helps to stabilize the vehicle in the event of heavy understeer.

**ESP® trailer stabilization (TSA - Trailer Stability Assist):**

The system counteracts trailer swing lowering the chance of jack knifing. Sensors monitor trailer swing. As soon as they detect an unstable situation, a first stabilizing phase is initiated, consisting in an asymmetrical braking intervention at the front axle, alternating on the left and on the right sides. If this asymmetrical braking action proves insufficient, the second phase is **added** to the first. In this second phase the vehicle is slowed down by braking interventions at all four wheels and by an engine torque reduction.

This system is active ex-factory if a trailer tow hitch is installed at the factory.

**ESP® - Electronic Stability Program:**

ESP® interfaces with both the brake system and the engine management. It continuously monitors the signals from the steering angle sensor, wheel speed sensors, lateral acceleration sensor and yaw sensor, allowing it to assist the driver if instability is detected. In critical situations, ESP® actively intervenes in the engine management and brake system and assists the driver by generating braking forces to restore directional stability. When ESP® and ASR interventions are taking place, the ESP® warning light comes on in the speedometer.

If acceleration skid control is deactivated by pressing the ASR-OFF switch, the ESP® warning light comes on continuously. If a driving situation occurs in which instability is detected, ESP® intervenes and ASR is switched back on again. At speeds over 60 km/h ASR is always active, i.e. if the system has been deactivated it is automatically reactivated when the vehicle accelerates to a speed above 60 km/h and cannot be deactivated. When the speed falls below 60 km/h, ASR is deactivated again and the warning light comes on.

Even with ASR switched off, the ESP® warning light flashes when the tires have reached their adhesion limit.

**Benefits**

---

- Increases stability in certain critical situations
- Enhances active safety in certain critical situations
- Improves track-holding and directional stability in certain critical situations

ESP® enhances safety and ride comfort in certain critical situations and coordinates and enhances the operation of ABS and ASR. Augmented by the new functions ROM, RMI, LAC and EUC, ESP® provides a high level of driver assistance and increases stability in critical dynamic situations.

**Remarks**

---

The Trailer Stability Assist system is only activated if a trailer tow hitch is installed at the factory. If a trailer tow hitch is retrofitted the TSA system can be activated by a dealer after the installation using Star Diagnostic.

## Parking brake for Swivel Seat



### Details & Technology

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Installation of a special parking brake lever. After engaging the parking brake the lever can be lowered and the parking brake remains engaged.

### Benefits

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- Allows a swiveling driver's seat to be swiveled even when the parking brake is engaged
- The parking brake lever allows the swivel driver's seat to be swiveled over the parking brake lever even when the parking brake is engaged.

### Remarks

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**If required the low seat base for driver and co-driver can be ordered** separately using Code S87/S88!

## Rear Springs Harder

### Details & Technology

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Two-leaf springs with a steeper spring rate curve than the standard springs.

### Benefits

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- Greater roll resistance

In conjunction with the stabilizing package, the firmer rear springs provide greater roll resistance but without compromising ride comfort. With a load of 2250 kg on the rear axle, spring travel is reduced by approx. 21 mm. There is no change in the un-laden height of the vehicle.

### Remarks

---

Recommended particularly for vehicles with a high center of gravity.

## Rear springs for 8550 lbs weight version

### Details & Technology

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Single-leaf rear springs specially designed for all vehicles with 8550 lbs GVWR (XL8).

### Benefits

---

- Adapted suspension characteristics

Adapts the rear suspension to the higher rear axle load rating, thus maintaining a high standard of ride comfort.



## **Deluxe rear springs for 8550 lbs weight version**

### **Details & Technology**

---

Dual-rate two-leaf rear springs provide different spring rates depending on vehicle payload.

When the vehicle is empty or with a light load, only the main spring leaf is used. If the vehicle is more heavily laden, the second spring leaf is used.

### **Benefits**

---

- High suspension comfort

Greater ride comfort when vehicle is un-laden, and appropriate firmness when carrying a heavier payload.

## Stabilizer Front-Axle



### Details & Technology

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A stabilizer is mounted to the control arms and axle housing. The stabilizer is a torsion bar made of spring steel, installed transversely to the direction of travel. The stabilizing effect is exerted only under unilateral compression. If there is equal compression on both sides, the stabilizer has no effect.

### Benefits

---

- Reduces roll
- Improved road holding even with an unequally distributed load

The stabilizer reduces roll which occurs for example when cornering with a load which has a high centre of gravity or when the front axle load is unequally distributed.

### Remarks

---

Recommended for vehicles with tall bodies. For further information, please see the chassis brochure.

## **Stabilizer Bar-Rear**

### **Details & Technology**

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The stabilizer is made of spring steel and is fitted behind and parallel to the axle, transversely to the direction of travel. It is attached at two points to the axle tube and at two points to the frame. The stabilizing effect is exerted only under unilateral compression. If there is equal compression on both sides, the stabilizer has no effect.

### **Benefits**

---

- Improved road holding even with an unequally distributed load
- Reduced roll

The stabilizer reduces roll which occurs for example when cornering with a load which has a high center of gravity or when the front axle load is unequally distributed.

### **Remarks**

---

Recommended for vehicles with tall bodies. For further information, please see the chassis brochure.

## Higher-capacity rear axle stabilizer under frame

### Details & Technology

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The stabilizer has a larger diameter than the standard version, is made of spring steel and is fitted behind and parallel to the axle, transversely to the direction of travel. It is attached at two points to the axle tube and at two points to the frame. The stabilizing effect is exerted only under unilateral compression. If there is equal compression on both sides, the stabilizer has no effect.

### Benefits

---

- Improved road holding even with an unequally distributed load
- Reduced roll

The higher-capacity stabilizer has a more powerful stabilizing effect than the standard version. It reduces roll which occurs for example when cornering with a load which has a high centre of gravity or when the front axle load is unequally distributed.

### Remarks

---

Recommended for vehicles with tall bodies. For further information, please see the chassis brochure.

## **Stabilizer Bar – Reinforced Front**

### **Details & Technology**

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A higher-capacity (larger-diameter) stabilizer is mounted to the control arms and axle housing. The stabilizer is a torsion bar made of spring steel and is fitted transversely to the direction of travel. The stabilizing effect is exerted only under unilateral compression. If there is equal compression on both sides, the stabilizer has no effect.

### **Benefits**

---

- Improved road holding even with an unequally distributed load
- Reduced roll

The higher-capacity stabilizer has a more powerful stabilizing effect than the standard version. It reduces roll which occurs for example when cornering with a load which has a high center of gravity or when the front axle load is unequally distributed.

### **Remarks**

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This stabilizer is recommended for camper vans and vehicles with a similarly high center of gravity, for example box-body vehicles with tail lift, vehicles with aerial platform or vehicles with refrigerated box body.

For further information, please see the chassis brochure.

## Higher-capacity shock absorbers

### Details & Technology

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The two rear shock absorbers provide firmer damping than the standard shock absorbers. They also have more heat-resistant seals, for a longer service life.

### Benefits

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- Longer service life for vehicles which are regularly used under severe conditions

Recommended for vehicles which are regularly used under severe conditions. Improved handling on rough roads.

### Remarks

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For further information, please see the chassis brochure.

## Bumper Primed- Front and Rear



### Details & Technology

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The front and rear bumpers and corner sections are primed in pure white (MB 9678). This coating makes it possible to apply a topcoat in any desired color.

### Benefits

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- Allows subsequent painting

The bumpers and corner sections are paintable in a different shade or shades, for example by a body manufacturer. Allows vehicles to be repainted e.g. in fleet colors.

## **Stabilizer for Camper Body**

### **Details & Technology**

---

Modified suspension package is available only for special-purpose vehicle versions, such as tall camper vans. Vehicles 8550 lbs / 9990 lbs and 11030 lbs - are fitted with harder shock absorbers, harder front and rear springs and higher-capacity front and rear stabilizers. The suspension package provides heavy-duty roll stabilization for payloads with a particularly high center of gravity (requires at least a 1200 kg / 2646 lbs load on the rear axle).

### **Benefits**

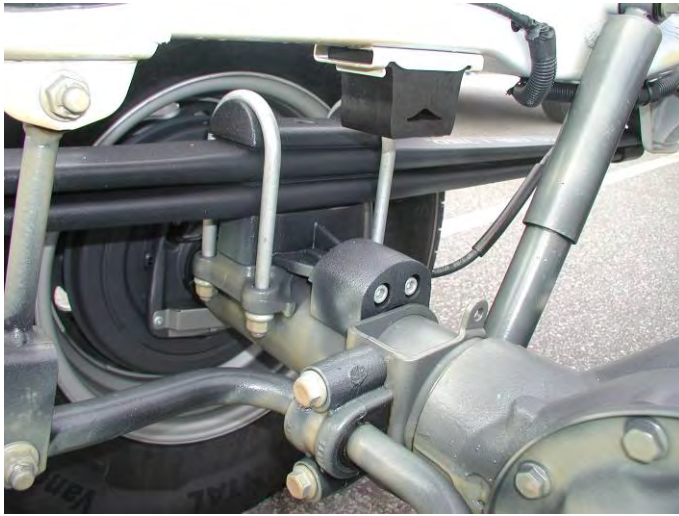
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- Improved handling for vehicles with tall camper body
- Reduced roll

The suspension package offers greater roll stabilization while at the same time retaining comfortable ride characteristics. Recommended for camper bodies with alcoves.



## Higher rear suspension (RV only)



### Details & Technology

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35mm [1.38 inch] tall spacers are fitted on the left and right side between the rear springs (center) and the axle spring saddle. (Part fits between leaf spring and axle)

### Benefits

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- More space between frame and road
- Improved departure angle

Provides more space under the frame for fitting special attachments and improve vehicle rear ramp angle.

### Benefits

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Available for Chassis/Cab RV fleet orders only.

## Suspension w/Front & Rear Stabilizer



### Details & Technology

---

With this package code, depending on model variant higher-capacity front axles, stabilizers, shock absorbers and springs are fitted.

**Note:**

For 3500 Sprinter a heavy duty front axle option code V37/A50 is available.

CF2 is standard equipment on 2500 Cargo 144 wheelbase

### Benefits

---

- Improved handling
- Reduction of roll angle

The higher-capacity stabilizer has a more powerful stabilizing effect than the standard version. It reduces roll when cornering with a load with a high center of gravity or when the front axle load is unequally distributed. The higher-capacity shock absorbers and springs provide more freedom for weight distribution. Do not exceed the maximum front axle load.

### Remarks

---

This package is recommended for:



**Chassis Cab (standard equipment):**

- Platform Bodies
- Stake Bodies



**Cargo Van: (standard equipment only on 2500 Cargo 144 wheelbase)**

- Ambulance

## Suspension with Heavy Duty Rear Stabilizer



### Details & Technology

---

With this package code, depending on model variant higher-capacity stabilizers, shock absorbers and springs, and depending on GVWR also a higher-capacity front axle is installed.

**Note:**

For 3500 Sprinter a heavy duty front axle option code V37/A50 is available.

### Benefits

---

- Improved handling
- Reduction of roll angle

The higher-capacity stabilizer has a more powerful stabilizing effect than the standard version. It reduces roll which occurs when cornering with a load with high center of gravity.

### Remarks

---

This package is recommended for:



**Chassis Cab:**

- Refrigeration vehicles with built-in shelving.
- Car transporter

## Suspension with Heavy Duty Front & Rear Stabilizer



### Details & Technology

---

With this package code, depending on model variant higher-capacity stabilizers, shock absorbers and springs, and on 3500 GVWR a higher-capacity front axle, are fitted. In addition, even better tuned shock absorbers are installed depending on model variant.

**Note:**

For 3500 Sprinter a heavy duty front axle option code V37/A50 is available.

### Benefits

---

- Improved handling
- Reduction of roll angle

The higher-capacity stabilizer has a more powerful stabilizing effect than the standard version. It reduces roll which occurs when cornering with a load with a high center of gravity or when the front axle load is unequally distributed.

### Remarks

---

This package is recommended for:

**Chassis Cab:**

- Ambulance
- Armored Vehicles
- Shuttle Bus
- Box Body
- Refrigeration Vehicle

**Cargo Van:**

- Shuttle Bus
- Refrigeration Vehicle
- Armored Vehicles
- Tail lift
- Mobile work shops
- RV's on cargo van

## Suspension – High Center of Gravity (Chassis Cab only)



### Details & Technology

---

With this package code, harder rear springs (no helper leaf), a higher-capacity front axle and higher-capacity stabilizers are installed. In addition, even better tuned shock absorbers are installed depending on model variant.

**Note:**

A heavy duty front axle option code V37/A50 is available.

### Benefits

---

- Improved handling
- Reduction of roll angle

The higher-capacity stabilizer has a better stabilizing effect than the standard version. It reduces roll which occurs when cornering with a load with a high center of gravity or when the front axle load is unequally distributed.

### Remarks

---

This package code is recommended exclusively for Chassis Cabs:



**Chassis Cab:**

- RV's
- Box Bodies with Tail Lift
- All vehicles with high center of gravity will benefit

## Steering Wheel Tilt/Tell



### Details & Technology

The steering wheel is manually adjustable for height and reach. To provide a large adjustment range, the steering wheel can be tilted in a range between 28° and 32° from the vertical and can be adjusted axially by 40 mm [1.6 inch]. The adjustment is performed using a lever on the steering column.

### Benefits

- An ergonomic seating posture can be adopted
- More comfortable seating posture and enhanced driver fitness

Allows a quick and easy steering wheel adjustment. Standard on all models.

## Steering Wheel - Multi Function



### Details & Technology

Multifunction steering wheel with four steering-wheel buttons. In addition to the horn, it is also possible to operate the various functions of the onboard computer, the radio, CD, radio w/Bluetooth, if equipped, from the steering wheel.

**Steering-wheel buttons (left):** select onboard computer menu, scroll up/down onboard computer menu.

**Steering-wheel buttons (right):** volume +/- and place/answer or end a telephone call.

### Benefits

- Enhanced comfort

The multifunction steering wheel can be used to access and adjust a wide range of functions such as the trip computer, tire inflation, the radio volume, the telephone (on vehicles with Bluetooth radio EJ3 and a Bluetooth capable cell phone) etc. This allows the driver to keep both hands on the steering wheel.

### **Note:**

The multifunction steering wheel does not support radio prep ER0.

## Molding – Paintable, Side



### Details & Technology

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The side plastic moldings panels are primed in white to be painted with after market paint.

### Benefits

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- Allows subsequent painting

The side plastic moldings are paintable in a different shade or shades, for example by a body firm. Allows vehicles to be repainted e.g. in fleet colors.

### Remarks

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Fleet order only.

Front and rear bumpers can also be ordered primed (sales CODE C72).



## Rear Spring Vibration Absorbers



### Details & Technology

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Attachment of two vibration absorbers, respectively, on the left and right rear spring.

### Benefits

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- Lowers resonant vibrations

The vibration absorber lowers the resonant vibrations of the rear springs, thus hindering noise development.

### Remarks

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The rear spring vibration absorbers are standard on passenger vans and available on 2500 cargo vans.

## Roof - High



### Details & Technology

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Includes high sidewalls and higher rear doors, giving an interior height in the load compartment/ passenger compartment of approximately 1940 mm [76.4"].

The rear doors are 1840 mm high [62" w x 72" h].

Left and right sliding doors, the height of these doors is 1820 mm [51" w x 72" h].

The maximum roof payload capacity (evenly distributed over the whole area of the roof) is 150 kg [330lbs]

### Benefits & Arguments

---

- Increased load space
- very tall door openings
- Stand-up room in load compartment

The high sidewalls provide increased load space in the panel van and offer room to stand up. Tall, bulky objects can be loaded and unloaded more easily due to the taller door apertures.

## Roof Rails



### Details & Technology

---

Two recessed longitudinal stainless-steel C-rails are bolted to the roof. Maximum roof load (including basic carrier bars) is 50 kg [110lbs] per cross-bar. Maximum roof load for the standard roof is 300 kg [660lbs] (6 cross-bars) and 150 kg [330lbs] for the high roof (Code D03) (3 cross-bars).

### Benefits

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- Allows roof carriers to be fitted

The roof rails allow roof racks, roof boxes and other accessories to be fitted.

### Remarks

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The roof rails can be retrofitted.

144WB: B6 656 0752  
170WB: B6 656 0753  
170WBext: B6 656 0754

## Sunroof – Fixed, Rear



### Details & Technology

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144" wheelbase vehicles are fitted with 2 fixed sunroofs approx 830x400mm [32.6"x15.7"], in the rear part of the roof.

170" wheelbase vehicles and vehicles with long overhang are fitted, in addition to the two above-mentioned sunroofs, with two further fixed sunroofs in the rear part of the roof. The dimensions are approx. 170x520 mm [6.7"x20.5"].

### Benefits

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- Load compartment admits more day light, for easier working etc.

The greater amount of daylight entering the cargo area provides better working conditions, e.g. in workshop vehicles and parcel delivery vehicles.

## Sunroof, powered, rear, passenger compartment



### Details & Technology

The tilting/sliding glass sunroof consists of tinted single-layer safety glass (approx. 90% tinted) and an integrated, continuously adjustable sunblind. The dimensions of the power sunroof are approx. 380x800 mm [15"x31.5"].

The sunroof is operated by a switch in the overhead control panel at the front of the vehicle.

## Benefits

---

- Fast adjustment of interior climate to suit individual requirements
- Makes the interior appear larger
- Greater operating convenience due to integration in extended central locking system

The power sunroof can be opened or closed conveniently while the vehicle is in motion. In adverse weather conditions, the roof can be tilted up so as to provide ventilation while en route. The sunblind can be used to provide protection against direct sunlight.

Additional operating ease and convenience is provided by the **convenience opening/closing** functions.

## Remarks

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When opening, it should be checked that there is adequate clearance (approx. 60 mm [2.5"]) between the sunroof and any roof carriers!

For emergencies the sunroof can also be operated manually, using the Z-shaped Allan key.

## Sunroof – powered, front cab



### Details & Technology

The tilting/sliding glass sunroof consists of single-layer safety glass (approx. 90% tinted) and an integrated, continuously adjustable sunblind. The dimensions of the tilting/sliding glass sunroof are approx. 380x800 mm [15"x31.5"].

The sunroof is operated by a switch in the overhead control panel.

### Benefits

---

- Fast adjustment of interior climate to suit individual requirements
- Makes the interior appear larger
- Greater operating convenience due to integration in extended central locking system

The power sunroof can be opened or closed conveniently while the vehicle is in motion. In adverse weather conditions, the roof can be tilted up so as to provide ventilation while en route. The sunblind can be used to provide protection against direct sunlight.

Additional operating ease and convenience is provided by the **convenience opening/closing** functions.

### Remarks

---

When opening, it should be checked that there is adequate clearance (approx. 60 mm [2.5"] between the sunroof and any roof racks!

For emergencies the sunroof can also be operated manually, using the Z-shaped Allan key.



## Cargo Partition



### Details & Technology

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A grey sheet-metal full bulkhead is installed inside the cargo area and attached to the B-pillar. The material of the partition is steel.

Before driving always secure your cargo using the tie down system standard in all Sprinters.

### Benefits

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- Serves to secure load, in conjunction with floor mounted lashing D-rings
- Front cab can be heated up more quickly
- Keeps dirt, dust and odors produced by the load out of the driver's compartment

In cold temperatures the driver's section can be heated more quickly.

**Cargo Partition w/ Fixed Window**



**Details & Technology**

The cargo van is fitted with a grey, sheet-metal full bulkhead with central fixed window, size 1300 x 340 mm [51.2"x13.4"].

**Benefits**

- Serves to secure load, in conjunction with floor mounted lashing D-rings
- Cab can be heated up more quickly
- Allows to visual check the cargo area
- Keeps dirt, dust and odors produced by the load out of the driver's compartment
- When rear door windows (W61, W78) are fitted, provides a view to rear traffic

In cold temperatures the driver's section can be heated more quickly.

**Cargo Partition w/ Sliding Window**



**Details & Technology**

The panel van is fitted with a grey sheet-metal bulkhead with central sliding window, size 1300 x 340 mm [51.2"x13.4"].

**Benefits**

- Serves to secure load, in conjunction with lashing eyelets
- Cab can be heated up more quickly
- Allows visual checking of load compartment
- Makes it possible to communicate verbally between the cab and the load compartment
- Keeps dirt, dust and odours produced by the load out of the driver's compartment
- When rear door windows (W61, W78) are fitted, provides a view to rear traffic

In cold temperatures the driver's section can be heated more quickly.

## **Cargo Partition Provisions**

### **Details & Technology**

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The grey B-pillar cover is designed such that it will allow a bulkhead to be retrofitted. There are mounting holes in the B-pillar and roof bow.

If no bulkhead is fitted, the B-pillars and roof bow facing the cargo compartment are exposed.

### **Benefits**

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- Allows retrofitting of a bulkhead

The pre-installation allows body manufacturers to retrofit either a Mercedes-Benz bulkhead or an aftermarket solution.

### **Remarks**

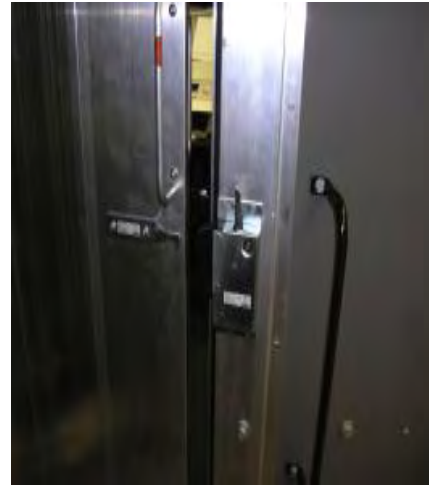
---

Before driving always secure your cargo using the floor mounted tie down system standard in all Sprinters.

## Bulkhead with sliding door



Picture shows pre-production model



Picture shows pre-production model



### Details & Technology

The bulkhead with sliding door is situated in the B-pillar area. The sliding door is fitted with a door lock and locking cylinder. From the driver's side, the sliding door is opened by means of the vehicle key, and from the load compartment side by means of a lever on the door lock. The aluminum sliding door is 577 mm wide, 1775 mm high and 17 mm thick. The open sliding door is held in place at the end of its travel by a retainer. On the right-hand side, in the entrance area of the sliding load-compartment door, the bulkhead can be fitted with a grab handle (Code T77).

### Benefits & Arguments

- Serves to secure load, in conjunction with lashing eyelets
- Provides direct access to the load compartment
- Makes it possible to communicate verbally between the cab and the load compartment
- Keeps dirt, dust and odors produced by the load out of the driver's compartment
- Cab can be heated up quickly

Fitting the bulkhead - in conjunction with the tie-down points - makes it possible to secure the load in accordance with regulations. It also makes it possible to stack the load in such a way that it can be restrained by direct means.

The sliding door provides direct access to the load compartment and makes it possible to communicate verbally between the cab and the load compartment. When the sliding door is closed, it is not possible to see the cargo.

## **Cargo Partition - none**

### **Details & Technology**

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No cargo partition is installed on cargo vans.

The difference to D62 is that the grey B-pillar cover wraps around the entire B-pillar and does not allow an easy bulkhead retrofit.

### **Benefits & Arguments**

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- Uninterrupted access to load compartment
- Allows special bodies and attachments to be fitted

Provides easy access to the load compartment, and allows extra-long objects such as carpet rolls to be pushed right through to the co-driver's seat base. Also makes it easier for body manufacturers to fit special bodies and attachments.

## Hill-Start Assist

### Details & Technology

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After the brake pedal has been released, the applied braking pressure continues to be provided by the Hill-Start Assist for approximately two seconds. Hill-Start Assist activates on gradients of approx. 4% or more, whether starting in forward or reverse gear.

If the direction of travel is downhill, Hill-Start Assist is **not** activated. Hill-Start Assist is also **not** activated if the park brake is engaged.

### Benefits

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- Easier hill starts
- Temporarily prevents the vehicle from rolling backwards on downhill



## Aux Battery – 100Amp



### Details & Technology

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In addition to the standard battery, a 12 V/100 Ah auxiliary battery with long cycle life is mounted in the engine compartment. The aux battery supply voltage is separated from the vehicle electrical system through a cutout relay.

An electrical connector box is installed inside the driver seat base. Remove cover to attach your electrical connection and install an appropriate fuse as close as possible, ensuring cover is seated properly when closing.

### Benefits & Arguments

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- Allows operation of additional electrical consumers

### Remarks

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When shutting down the engine, the aux battery is separated from the vehicle electrical system via a cutout relay.

## Battery Disconnect



### Details & Technology

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The battery quick-disconnect unplugs the battery ground connection and switches off all electrical consumers. It is located in the driver's footwell, to the right of the accelerator pedal. To disconnect, the connector has to be removed from the ground post. See owners manual.

It must be **ensured** that the battery master switch is only disconnected when the **vehicle key** in the ignition lock is **in position 0, otherwise** there is a **risk of damaging other components** in the electrical system.

The battery quick-disconnect is standard on all Sprinters.

### Benefits

---

- Prevents uncontrolled battery discharge
- Work on the electrical system can be carried out more quickly

The battery quick-disconnect prevents uncontrolled discharging of the battery due to standby current consumption.

It is recommended that vehicles with extended down time be disconnected (3 weeks and longer).

The battery quick-disconnect also allows work on the electrical system to be carried out more quickly, since it is not necessary to disconnect the battery pole.

## **Relay – Aux Battery Disconnect**

### **Details & Technology**

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The relay is installed on the charge line to the auxiliary battery. It separates the starter battery consumers from the auxiliary battery consumers. When the engine is running, the relay allows both batteries to be charged or discharged simultaneously.

### **Benefits & Arguments**

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- Starter battery cannot be discharged by auxiliary consumers

The cutout relay prevents the starter battery being drained by consumers connected to the auxiliary battery. It also prevents the auxiliary battery being drained by the standard consumers such as the starter or fan.

**12V Power Outlet -Driver Seat Base**



**Details & Technology**

---

12 V/ 15 Amp socket on driver's seat base, right-hand side (180 watt maximum). Power can be drawn regardless of ignition key position. The power is supplied by the starter battery, except if Code E28 (aux battery) is specified, in which case it is supplied by the auxiliary battery.

The compressor which forms part of the PREMIUM SEAL kit (Code RR7) must be powered from the socket in the instrument panel.

**Benefits & Arguments**

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- Can be used to power additional electrical consumers

The socket can be used to power electrical consumers such as a fan, TV, cell phone, CB or cool box.

## Battery - AGM 12 V/95 Ah deep cycle



### Details & Technology

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A heavy duty 12 V/95 Ah AGM (Absorbent Glass Matt) starter battery is fitted instead of the standard 12 V/100 Ah starter battery.

The AGM battery is provided with absorbing glass fleece in which the electrolyte is absorbed into a mat of fine glass fibers.

The AGM battery is smaller and lighter than common batteries, due to the fact that the energy density is increased.

### Benefits

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- Resistant against total discharge
- Cycle resistant
- Maintenance free
- Electrical system designed for more demanding requirements through the increased power
- More reliable starting in winter

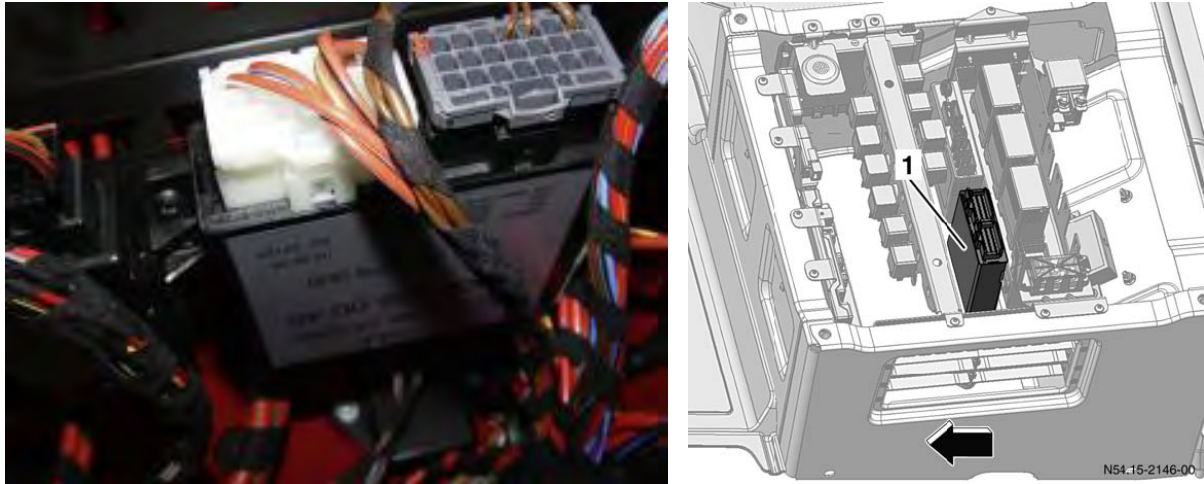
The AGM battery is designed for heavier-duty requirements, e.g. for frequent starting in short-distance operation (cycle resistant) or for supplying a large number of electrical special equipment items. It is also recommended for operation in extreme climates, e.g. when the high-performance air conditioning in the passenger compartment is used.

### Remarks

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ED4 is standard when rear A/C (H08) on passenger vans is ordered.

## Parametric Special Module



### Details & Technology

The Parametric Special Module (PSM) is the gateway into the vehicle electronic system. Vehicle information can be accessed and vehicle functions can be modified via 10 inputs and 20 outputs.

#### **Outputs:**

**Vehicle status:** Doors open / closed; locked / unlocked etc. Hand brake applied

**Light control:** Side lamps, brake light, turn signals, main-beam headlamps etc.

**Engine CAN information:** Vehicle speed, engine speed, gear selector position, AC compressor etc.

#### **Inputs:**

**Light functions:** interior / exterior lights, turn signals etc. wig-wag

**Central locking:** lock / unlock entire vehicle, load compartment

**Alarm functions:** hazard warning flasher, warning buzzer, horn

PSM signals can be combined to create logic combinations (AND, OR, NOR, XNOR etc.). PSM signals can be processed internally in Timer, Counter and Hysteresis Blocks or Threshold Switches to trigger specified Output signals or Input functions.

### Benefits & Arguments

The Sprinter is networked with several bus systems and the PSM was developed to give body builders access to individual types of CAN bus data. The PSM is the gateway to the CAN bus and can be used to read vehicle information and control vehicle functions (e.g. the central locking).

### Remarks

The above listed signals are examples only. For a complete list of signals see the 'Sprinter Body Builder Information Book'.

The PSM program has to be uploaded to the PSM via the MB Star Diagnostic.

## **Parametric Special Module (PSM) Prep**

### **Details & Technology**

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The PSM pre-installation includes the electric wiring up to the driver's seat frame.

### **Benefits & Arguments**

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- Allows easy retrofitting of the Parametric Special Module PSM

Access to the vehicle electronic system is only possible/permissible via the PSM module.

### **Remarks**

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The dealer can only program factory special equipment features such as high idle (MT4, M53).

For more information see the 'Sprinter Body Builder Information Book'.

## Battery 12 V/100 Ah



### Details & Technology

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The high-capacity 12 V/100 Ah starter battery is standard on all Sprinters.

### Benefits & Arguments

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- Electrical system designed for more demanding requirements
- More reliable starting in winter

The higher-capacity battery is designed for heavy-duty requirements, e.g. for frequent starting in short-distance operation or for supplying a large number of electrical special equipment items.



## Radio AM/FM, 6 disc CD, w/ Bluetooth



### Details & Technology

#### **Basic functions:**

- 5-inch TFT color display
- 6 disc CD changer
- Telephone keypad
- AUX-IN connection on the rear of the unit
- Bluetooth hands-free system

#### **Output and sound:**

- Sound adjustments (bass, treble, fader, balance)
- Separate volume adjustments for radio, telephone
- Speed-sensitive volume control, gradual increases volume starting at 12 mph
- 4 x 25 Watts output
- includes 5 front speakers and Passenger Van includes 8 additional rear speakers

#### **Radio:**

- Wavebands FM, AM
- 10 station memory positions per waveband
- Automatic station search
- Automatic storage of currently receivable stations
- Full-text station display (RDS - Radio Data System)
- SCAN function (each station is tuned in for approx. 8 seconds)
- Manual station selection

**CD-player**

- 6 disc CD-player with Soft Eject
- Automatic CD reload
- Supports MP3 and WMA audio files
- Forward/reverse skip function
- SCAN function (all tracks are played for approx. 8 seconds)
- Random function
- Display of current track playing time

**Telephony support**

- Bluetooth hands-free system as standard (compatible with many Bluetooth mobile phones)
- can import the mobile phone book via Bluetooth (compatible with many Bluetooth mobile phones)

**Benefits**

---

- MP3 and WMA-capable CD-player
- Additional MP3 information shown in the display
- AUX-IN connector on the rear of the unit
- Twin tuner and precise, vehicle-matched antennal tuning
- Can be operated from the multifunction steering wheel
- 4 x 25 Watts output
- Bluetooth hands-free system

Radio Audio 20 is equipped with an MP3 and WMA-capable CD-player. Additional MP3 file information, e.g. album title and tracks, are shown in the display if recorded in the MP3 music file. The unit can be operated via the multifunction steering wheel (Code CL4).

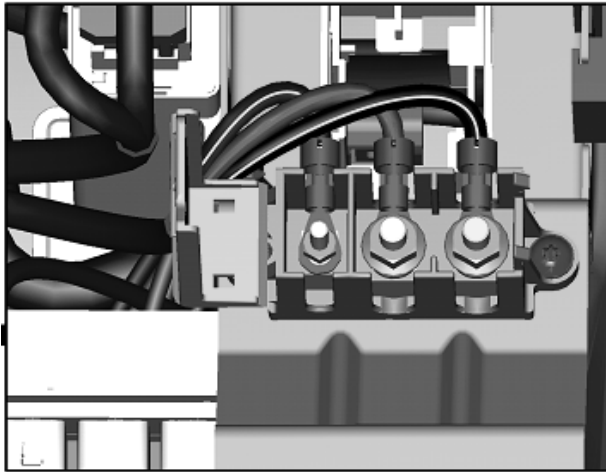
It provides individual selection options with station memories, while the twin tuner and precise, vehicle-matched antenna ensures the highest possible quality of reception even under unfavorable conditions.

**Remarks**

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The standard Bluetooth function allows hands-free use of a Bluetooth mobile phone.

## Auxiliary Electrical Connector inside driver's seat base



### Details & Technology

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Additional electrical components must be connected using the auxiliary electrical connector (EK1) standard from the factory (max 25 A). The electrical connector is installed inside the driver's seat base (at the front, on the left-hand side of the vehicle) and has three terminals:

- Terminal 1: 12 V/10 A (120 W) Power engine running (Blue/Yellow)
- Terminal 2: 12 V/25 A (300 W) Battery direct power (Red/Grey)
- Terminal 3: 12 V/15 A (180 W) Ignition power (Black/Yellow)

### Benefits

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The terminal strip allows easy integration of additional electrical consumers into the existing power network. The blank switch panel allows the integration of additional switches for the operation of body/conversion systems installed by body manufacturers or vehicle operators.

### Benefits & Arguments

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Maximum load 25 A. Electrical loads greater than 25A requires an Auxiliary Battery (E28).  
Standard on all models.

## Radio Speakers 5 Front



### Details & Technology

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Two-way loudspeaker system plus one center speaker. One mid-range woofer is fitted in the driver's door and one in the co-driver's door. The center speaker and the tweeters are integrated in the instrument panel.

### Benefits & Arguments

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- Excellent sound quality due to five speakers

Excellent sound quality due to separate tweeters and mid-range woofers and separate centre speaker.

## Radio Speakers 5 Front & 8 Rear



### Details & Technology

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Two-way loudspeaker system: the specification of Code EL8 is extended with a further four tweeters and four mid-range woofers fitted in the sidewall/sliding door and in the left and right-hand rear side wall panel in the passenger compartment.

### Benefits & Arguments

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- Excellent sound quality due to 13 speakers
- Improved listening pleasure in passenger compartment

Offers excellent sound quality, due to separate tweeters and mid-range woofers, and improved listening pleasure for passengers.

## Radio AM/FM CD



### Details & Technology

#### Basic functions:

- Monochrome LC display
- CD-player
- AUX-IN connection on the rear of the unit

#### Output and sound:

- Sound adjustments (bass, treble, fader, balance)
- Speed-sensitive volume control, gradual increases volume starting at 12 mph
- 4 x 25 Watts output
- includes 5 front speakers and Passenger Van includes 8 additional rear speakers

#### Radio:

- Wavebands FM, AM
- Twin tuner
- 10 station memory positions per waveband
- 5 station memory positions per AM waveband
- Automatic station search
- Automatic storage of currently receivable stations
- Full-text station display (RDS - Radio Data System)
- SCAN function (each station is tuned in for approx. 8 seconds)
- Manual station selection

**CD-player**

- Single CD-player with Soft Eject
- Automatic CD reload
- Supports MP3 and WMA audio files
- Forward/reverse skip function
- SCAN function (all tracks are played for approx. 8 seconds)
- Random function
- Display of current track playing time
- Lights (LEDs) on the side edges of the CD aperture

**Benefits & Arguments**

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- MP3-capable CD-player
- Additional MP3 information shown in the display
- illuminated CD slot
- Precise vehicle-matched antenna tuning
- Can be operated from the multifunction steering wheel
- 4 x 25 Watts output

Radio Sound 5 is the entry-level unit for Sprinter vans. It is equipped with an MP3 and WMA-capable CD-player. Additional MP3 file information, e.g. album title and tracks, are shown in the display if recorded in the MP3 music file. The unit can be operated via the multifunction steering wheel (Code CL4), and includes loudspeakers configured for the vehicle interior.

It provides individual selection options with station memories, while the twin tuner and precise, vehicle-matched antenna tuning ensures the highest possible quality of reception even under unfavorable conditions. The CD opening is illuminated by LED's for easier operation in the dark.

## Radio Prep



### Details & Technology

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Prewiring (12 V) for retrofitting an aftermarket radio. Includes short-range interference suppression and a flexible stub radio roof antenna.

#### **Note:**

The pre-installation for radio does not support CAN/MOST technology. Factory radios can not be retrofitted. Prewiring not compatible with the multifunction steering wheel (CL4).

### Benefits & Arguments

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- Preparation for retrofitting a radio

Pre-installation allows retrofitting of any commercially available 12V radio to suit customer requirements.

### Remarks

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Pin layout radio connector:

A1 n.c

A2 n.c.

A3 n.c.

A4 KI30 (+12V battery direct power)

A5 switch `Antenna`

A6 terminal 58D (display illumination)

A7 terminal 15R (ACC accessory power on)

A8 KI31 (Ground)

B1 Loudspeaker rear right +

B2 Loudspeaker rear right -

B3 Loudspeaker front right +

B4 Loudspeaker front right

B5 Loudspeaker front left +

B6 Loudspeaker front left -

B7 Loudspeaker rear left +

B8 Loudspeaker rear left -



## Jump Start Terminal



### Details & Technology

A jump start terminal (positive pole) is fitted in the engine compartment next to the air filter. The jump start terminal can be accessed by pushing back the red protective cap.

### Benefits & Arguments

- Easier jump starting/charging of the starter battery

Given the limited accessibility of the starter battery (situated in the driver's footwell for improved crashworthiness), this terminal allows easier jump starting and can also be used for charging the starter battery.

## 12 V socket in luggage compartment/cargo compartment



### Details & Technology

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A 12-volt socket is fitted in left-hand D-pillar trim of the passenger/panel van. The passenger van has an additional 12-volt socket in the right-hand D-pillar trim. Both sockets have a maximum power rating of 180 Watts. Power can be drawn regardless of ignition key position. The power is supplied by the starter battery, except if Code E28 (aux battery) is specified, in which case it is supplied by the auxiliary battery.

The tire compressor which is part of the PREMIUM SEAL kit (Code RR7) must be powered from the socket in the center console.

### Benefits & Arguments

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- Connection point for electrical accessories

The socket can be used to power accessories such as a coolbox, vacuum cleaner, electric air pump or other electrical equipment.

## Parking Aid System FRT & RR



### Details & Technology

PARKTRONIC operates on the echo sounder principle. The electronic control unit uses ultrasonic signals emitted and detected by sensors in the front and rear bumpers to measure the distance between the vehicle and an obstacle. When reversing, the system monitors the area to the rear and front of the vehicle. When moving forwards, only the area to the front of the vehicle is monitored. The system is activated automatically when the ignition is switched on and the parkbrake lever is released. It switches off when the speed of the vehicle exceeds approx. 18 km/h [11mph] and back on when the speed falls below 16 km/h [10mph] again.

The system monitors the area:

- Front center up to a distance of between 30 and 100 cm [12" and 40"]
- Front corners up to a distance of between 25 and 65 cm [10" and 25"]
- Rear center up to a distance of between 30 and 180 cm [12" and 70"]
- Rear corners up to a distance of between 30 and 100 cm [12" and 40"]

As soon as an obstacle is detected within these areas, the visual (yellow and red LEDs) and audible warnings are activated. As the vehicle approaches an obstacle in its path, the visual signals are the first to be activated. As soon as the first red segment lights up, the audible warning is activated too. This sounds intermittently to begin with, then becomes continuous when the minimum distance is reached (second red LED).

The double warning display for the front area is located in the centre of the instrument panel, with two separate displays for the rear area integrated in the exterior mirrors. Two different tones enable the driver to detect whether the audible warning refers to the area in front of or behind the vehicle.

In the event of the vehicle rolling backwards inadvertently (for example, on uphill slopes) PARKTRONIC is activated automatically for the area to the rear of the vehicle if an obstacle is detected within 80 cm of the vehicle. The driver is made aware of this via activation of all the segments in the display for the rear as well as a continuous tone.

PTS can be activated/deactivated manually using a switch in the upper control panel. The indicator light in the switch is lit when PTS is off.

### **Benefits & Arguments**

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- Facilitates precise parking, with the help of visual and audible warnings
- Makes parking easier in tight situations

The parking aid facilitates precise parking and helps the driver to judge distances from obstacles in front of and behind the vehicle - particularly when visibility is limited.

### **Remarks**

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The sensors must be free from dirt, ice and snow in order to function correctly!

**Crew Cab Package**



## Package Content

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E46	12 V Power outlet driver seat base
ES2	12 V Power outlet rear compartment
FF3	Cup holder in passenger compartment
H00	Warm/cool air duct to passenger compartment
SD0	ISO Fix Child Seat
U62	Three Seater Bench in passg. First row narrow
U74	Seat armrest rear seats left
U75	Seat armrest rear seats right
V36	Roof trim
V40	Passenger van floor
W16	Fixed window at front left sidewall in left side sliding load compt door
W17	Fixed window at front right sidewall in right side sliding load compt door

## Remarks

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Approx Cargo Bed length:

- 144WB: 89.5in
- 170WB: 130.3in

Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

For a full description please refer to the individual code page.

Package content may change without notice.

## Window Rear – Chassis Cab

### Details & Technology

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The chassis cab rear wall is fitted with a window of single-layer safety glass, size 1330 x 360 mm [52.4" x 14.2"].

### Benefits

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- Improved rearward visibility
- Allows visual checking of cargo

The window allows more light into the cab. It provides rearward visibility, for easier reversing. In the case of vehicles with box bodies, it allows the driver to keep an eye on the cargo.

## Head Lamp Cleaning System



### Details & Technology

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Two high-pressure water jet nozzles are located under each light unit. If the windshield washer is operated and the headlamps are switched on, the nozzles are automatically extended and the headlamps are cleaned with a high-pressure jet. The fluid is supplied from the central windscreen washer reservoir in the engine compartment.

### Benefits & Arguments

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- Optimal light output in all weather conditions
- Active safety benefits

Cleans the headlamp lenses.

Since dirty headlamps significantly affect road illumination, the headlamp cleaning system has active safety benefits.



## Windshield, electrical heated



### Details & Technology

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Laminated windscreen with very thin, wavy, vertically aligned heating filaments. The windscreen heating is controlled using a switch with indicator light. It can only be operated when the engine is switched on.

The heating function is activated by pressing a rocker switch. It automatically switches itself off after approx. 5 minutes - or can be switched off manually by pressing the rocker switch again.

### Benefits & Arguments

---

- Prevents fogging

The electrical heated windscreen helps to prevent fogging of the windscreen and to keep it clear of snow and ice in the winter.

## Chassis with cab base



### Details & Technology

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Chassis cab base. Amongst other features the windscreen, roof frame, rear wall and doors are omitted, but the seat bases are included.

A cover (Code P08) is supplied for transport purposes.

### Benefits

---

- A wide range of special-purpose bodies can be mounted

The chassis cab base provides body manufacturers with a basic chassis for fitting fully integrated bodies (e.g. camper bodies) or special-purpose solutions.

### Remarks

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Fleet order only and only for approved upfitters.

## Mirror – Rear view Day/Night



### Details & Technology

---

An interior mirror is attached to the front windscreen.

### Benefits & Arguments

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- manually adjustable for day and night
- Enhanced safety

The interior mirror improves rearward visibility, and is thus particularly useful when reversing and when maneuvering at loading ramps. Also allows the driver to keep an eye on the cargo compartment/passenger compartment.

## Glove Box - Lockable



### Details & Technology

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The glove compartment lid is fitted with a lock and is illuminated.

The key is the same mechanical key which is also used for the doors and the steering wheel lock.

### Benefits & Arguments

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- Convenient operation due to single-key system
- Secure stowage of personal items or freight documents

Anti-theft stowage space for personal items and freight documents.

## Exterior Mirror – Power and Heated



### Details & Technology

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The exterior rear-view mirrors and the wide-angle mirrors are heated. In addition, the exterior rear-view mirrors can be adjusted electrically using a switch. Another switch selects right-hand or left-hand exterior mirror, the controls are located in the driver's door.

The mirror heating is automatically regulated in response to exterior temperature. At temperatures below 15°C [59°F] the heating is activated and at 19°C [66°F] it will be turned off.

### Benefits & Arguments

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- Rapid mirror adjustment following a driver change
- Automatically helps to prevent mirrors fogging or icing

Allows quick and easy adjustment of the exterior mirrors following a driver change. Also reduces fogging and icing of the rear-view and wide-angle mirror in cold or damp weather.

## Cup Holders Passenger Compartment



### Details & Technology

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Unit slides out to the front below the seat cushion to allow cups or other drinking containers to be put down at shin level. Provisions for two cup holders are integrated into each unit.

The 2 three passenger bench seats have two cup holder units. The four passenger bench seat does not have cup holders.

### Benefits & Arguments

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- Allows drinks to be temporary stored

Allows drink containers to be put down safely in the passenger compartment.

## Shelf above Roof Trim



### Details & Technology

In the space between the roof and the cab roof lining, panel vans with high roof (Code D03) have an over-cab storage compartment which is accessible from the cargo compartment.

### Benefits & Arguments

- Additional stowage facility

The stowage compartment provides additional space for papers, documents or objects.

## Storage Slot at Front U/ Roof liner



### Details & Technology

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An opening (1 DIN slot) in the headliner above the windshield is provided with a four-pin connector. A plastic plate covers the opening.

The connector consists of:

- (terminal 30) +12 V battery direct power
- (terminal 15) ACC accessory power on
- (terminal 58d) display illumination
- (terminal 31) ground

### Benefits & Arguments

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- Can accommodate 1-DIN-sized equipment

The slot can be used for installing 1-DIN-sized equipment (e.g. CB radio).



## I/P Hinged Lid-Center Stack Bin



### Details & Technology

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The storage compartment in the center dashboard has a hinged lid. The lid is spring loaded and stays in the open position. The compartment can be closed by pressing the lid down until it locks.

### Benefits & Arguments

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- Concealed storage space

The storage compartment with hinged lid allows items such as a laptop or clipboard, personal items, documents (e.g. freight papers), maps etc. to be stowed out of sight and within easy reach.

## Chrome-trimmed radiator grille



### Details & Technology

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Four chrome trim strips are applied to the radiator grille

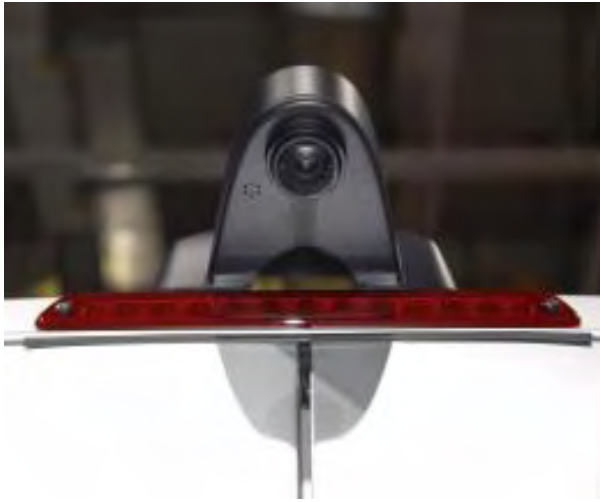
### Benefits

---

- Enhances the look of the vehicle

The chromed radiator grilles enhance the appearance of the vehicle.

## Back Up Camera Wiring Prep



Camera available from the MB accessories range



Monitor available from the MB accessories range

### Details & Technology

Wiring and electronic control unit for retrofitting the OEM backup camera and monitor.

The electronic control unit controls the camera module and monitor. It must be positioned close to the camera (at rear of roof). The video image will be displayed on a separate TFT monitor (available as part of the MB accessories range).

### Benefits & Arguments

- Improves rearward visibility and gives a better view of the rear of the vehicle
- Greater safety when reversing/reverse maneuvering

The pre-installation kit allows easy retrofitting of the OEM backup camera.

### MB accessories part numbers

The camera prewire will only work with MB accessory parts.

B6 656 0808      backup camera  
B6 656 0809      monitor

Part number can change without notice. Please check ODUS for current parts.

Back Up Camera



### **Details & Technology**

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Installation of a complete back up system, consisting of a camera with microphone and a separate monitor. The video image will be shown on a TFT flat screen located on top the center console.

The rearview camera sound and image are output via the monitor when the reverse gear is engaged.

Once reverse gear has been disengaged, the image and sound are disabled after a delay of 15 seconds.

The monitor also has an AUX interface (chinch input) for connection of an external audio/video source (e.g. DVD player, MP3 player) and an infrared interface which can be combined with the cordless infrared headphones (B6 656 0127) from the Mercedes-Benz accessories range.

For safety reasons, image output via the AUX interface is disabled at speeds in excess of 10 km/h [6 mph].

### **Benefits & Arguments**

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- Ensures rearward visibility and gives a view of the rear of the vehicle
- Greater safety when reversing and when maneuvering
- Microphone and loudspeaker system ensures better communication between the driver and the person guiding them

The rearview camera improves rearwards visibility when maneuvering in reverse. There is therefore less risk of a collision with people or objects.

## Exterior Mirror Extended (96")

### Details & Technology

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The chassis cab mirror is mounted on an extension bracket to accommodate bodies and upfits up to 96" wide.

### Benefits

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- Improves rearward visibility with extra-wide bodies

### Remarks

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Standard Chassis Cab mirror.

## Deletion of cab rear wall (Chassis Cab)



### Details & Technology

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Deletion of cab rear wall for chassis cab versions. A cover (P08) is supplied for transport purposes.

### Benefits

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- Special bodies can be fitted which are directly accessible from the cab

Deletion of the rear cab wall allows body manufacturers to fit special bodies which are accessible from the cab.

### Benefits & Arguments

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Fleet order only.

## Security Alarm



### Details & Technology

Automatically activated/deactivated via the key fob. The alarm is triggered if

- A door is opened,
- A door is opened from the inside,
- The hood is opened,
- The vehicle is raised at the front or rear,
- If movement is detected inside the vehicle
- Or if the central locking system is unlocked using the key at a door other than the driver's door.



The alarm system is armed approx. 30 seconds and the interior monitoring system approx. 40 seconds after the vehicle has been locked using the radio remote control. To confirm arming, the turn signal indicators blink three times.

To prevent false alarms, the interior monitoring system should be deactivated if people or animals are to be left inside the locked vehicle.

Tow-away protection is provided by an incline sensor integrated in the alarm control unit.

The self-powered horn is not accessible from outside the vehicle and is independent of the vehicle electrical system. Therefore it also active if the battery power is interrupted.

The alarm system is disarmed when the central locking system is unlocked using the key fob.

### **Benefits**

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- Additional anti-theft protection

Comprehensive anti-theft protection for vehicle and cargo.

Audible alarm: repeated honking of the self-powered horn for approx. 25 seconds.

Visual alarm: the turn signal indicators flash for approx. 4 minutes at twice the normal rate.

## **Keys - Two Additional Masters**

### **Details & Technology**

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Two additional master keys are provided to the two keys supplied as standard.

### **Benefits**

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- Customer is provided with four keys

There is no need to submit another order for two additional keys (e.g. for shuttle companies or fleets).

## Transmission – 5 Speed w/Autostick



### Details & Technology

The fully automated electro hydraulic 5-speed transmission transfers power to the wheels via a torque converter with integrated lockup clutch. The lockup clutch minimizes power loss or slip across the torque converter and can engage in all gears, depending on engine speed and load. This system allows upshifts to be performed smoothly and almost instantaneously. Selector position **P** activates a parking lock. This selector position is the only position in which the ignition key can be released. The selector lever can only be moved out of position **P** when the brake pedal is depressed and the ignition switched on. In selector position **D**, the transmission always starts in first gear.

The transmission control unit subsequently selects the most appropriate gears automatically, with reference to engine speed and road speed. Upwards of approx. 6 km/h [3.7mph], it is not possible to change from **D** into **R**.

When the transmission is in automatic mode (**D**), it is possible to limit the shift range by nudging the selector lever towards - or +.

Each time the selector lever is nudged from position **D** towards -, the shift range is reduced by one gear, conditions permitting. To prevent excessive engine speeds and maintain the power flow, downshift requests which would cause the engine to overrev are not carried out. If the selector lever is pressed towards - and held, the transmission changes down by several gears, conditions permitting.

Each time the selector lever is pressed towards + the shift range moves up a gear, before finally the transmission changes to automatic mode (**D**). If the selector lever is pressed towards + and held, the transmission changes to automatic mode and shifts accordingly.

#### Ratios:

1st gear 3.595

2nd gear 2.186

3rd gear 1.405

4th gear 1.000

5th gear 0.831

Reverse gear 3.167

**Benefits**

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- Smooth shifting
- Long service life and high reliability
- Low maintenance costs
- Low fuel consumption
- Makes the driver's job easier

Features of the W5A380 include smooth shifting, well-spaced ratios, long life, high reliability, low maintenance costs and low fuel consumption.

Dispensing with manual shift and clutch operations makes things easier for the driver, particularly in stop-go conditions, and allows the driver to concentrate fully on the road and traffic. This transmission offers easier starting from rest, maneuvering and parking, particularly on gradients.

Manual downshifting allows the full engine braking effect to be utilized.

**Remarks**

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**CAUTION:**

The parking lock is not an alternative to the parking brake!  
Therefore, the parking brake should **always** be applied when parking.

For towing information please consult the user manual.

## Air Duct Passenger Compartment



### Details & Technology

An additional air supply duct is fitted, with an air outlet in the rear part of the area between the driver's and front passenger's seat bases. The sturdy outlet is integrated between the floor panel and floor covering in front of the first row of seats.

The air duct is connected to the heating/climate control system. The air supply is adjusted by the heating/climate control dials.

### Benefits

Improves the warm/cool air supply to the passenger compartment/load compartment.  
Improves passenger comfort and wellbeing by providing enhanced heating/cooling.

### Benefits

Rear air ducts are standard on passenger vans and optional on cargo vans

## Insulation - Rear



### Details & Technology

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Additional insulation material is fitted up to waistline level in the sidewalls of the load compartment/passenger compartment and in the rear doors.

### Benefits & Arguments

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- Reduced heat loss at low ambient temperatures

The insulation reduces heat losses at low outside temperatures.

## Insulation - Front



### Details & Technology

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Additional insulation material is fitted in the front doors, rear wall on cab chassis, and forward side of bulkhead partition on cargo van.

### Benefits & Arguments

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- Reduced heat loss at low ambient temperatures

The insulation reduces heat losses at low outside temperatures.

## High-performance passenger compartment air conditioning



### Details & Technology

The high-performance rear air conditioning system is fitted in the front sunroof aperture over the rear compartment. It is driven by its own compressor and has a maximum cooling performance of approx. 7 kW [23,900 BTU] (in addition to HH9). The roof-mounted unit also extends some way into the interior of the vehicle.

The H08 air conditioning system supplements the cooling provided by HH9 (Standard front automatically controlled air conditioning system - TEMPMATIC), though this boosting function can be independently activated and adjusted. The system operates only in recirculation mode. It is controlled by a separate switch, which allows three fan speeds to be selected, and by a continuously variable temperature selector. The cooled air is supplied via adjustable outlets on the underside of the roof duct. The airflow direction can be individually adjusted and, if desired, the air supply can be shut off completely. The roof duct reduces the interior height of the vehicle by approx 50mm [2 inch].

Two or three interior lights, depending on wheelbase, are integrated in the roof duct. They are switched on and off by the door contact switch or individually at each light.



### Benefits & Arguments

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- Optimized interior climate in rear section
- Enhanced comfort and wellbeing for passengers in the rear
- Improved interior air quality

Optimized interior climate due to additional cooling of the air supply to the rear compartment. This system is particularly recommended for vehicles used in very hot climates. Rear passengers can individually adjust the air outlets for improved comfort and wellbeing. A pollen and particulate filter improves the interior air quality.

### Remarks

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**Caution:**

Increases the overall height of the vehicle by approx. 220 mm [approx 9inches].

The high-performance rear air conditioner is available on passenger van and cargo van for Canada.

Not available with Rear Sunroof.

## Heater - Auxiliary Front 5KW [17,000 BTU]



### Details & Technology

A fuel-powered 5-kW [17,000 BTU] auxiliary heater is mounted underneath the floor in the area of the left-hand B-pillar. The auxiliary heater warms the coolant, which then heats the driver's section via the water circuit of the front-end heater. The air is supplied to the interior via the air outlets in the instrument panel.

The auxiliary heater is turned on and programmed via a rocker switch in the instrument cluster (on vehicles with standard instrument cluster) **or** with the steering-wheel buttons (on vehicles with multifunction steering wheel (Code CL4) and pixel matrix instrument cluster (Code JK3)).

Maximum operating time is 60 minutes, at which point the heater switches off automatically. When the engine is running, the auxiliary heater can be used as a heater booster, supplementing the front-end heater.

When the aux heating mode turns off, the heater automatically switches to booster mode.

### Benefits

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- Comfortably warm interior
- Aids defrosting of the windows
- Pre-heated coolant is kinder on the engine when starting

This system is particularly recommended for Diesel engine vehicles being used in very cold climate regions. Since these engines are very efficient, their thermal energy may not always be sufficient at extremely low ambient temperatures.

The stationary heating function allows the interior to be heated even before the engine is started.

### Remarks

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Heater - Auxiliary Front 5KW, is packaged with Rear Heater Group II (PH4).

Comparable to code HZ5, but 5kW [17,000 BTU] versus 10kW [34,000 BTU] and manual mode only.

**Note:**

As of 01/2010 US emission regulations require the stationary heater to be only operational with outside temperatures below  $< 4^{\circ}\text{C}$  ( $39.2^{\circ}\text{F}$ ).

**Heater – Auxiliary Rear**



**Details & Technology**

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An auxiliary heat exchanger is connected to the water circuit in parallel with the front-end heat exchanger. The heat exchanger is installed on the left hand side of the vehicle, underneath the floor and behind the B-pillar.

The control panel, which adjusts the temperature and air volume, is situated in the instrument panel. The floor mounted air vent outlets are located at the wall behind the driver seat.

The rear heat can only be switched on with engine running.

**Benefits**

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- Improved comfort in cold weather

Better heating of the cargo compartment/passenger compartment when the engine is running.

**Remarks**

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Heater – Auxiliary Rear is part of Rear Heater Group 1 & 2 (PH3 / PH4)

## Seat – Heated Passenger



### Details & Technology

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The heated front passenger seat, with filaments in the seat cushion and backrest, is controlled by a switch on the instrument panel. On vehicles with a front passenger bench seat (Code S23), both seat cushions and the backrest of the outer seat are heated.

There is a choice of two settings: fast warm-up (high power consumption) or continuous mode (moderate power consumption).

### Benefits & Arguments

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- Improved comfort in cold weather

## Seat – Heated Driver



### Details & Technology

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The heated driver's seat, with filaments in the seat cushion and backrest, is controlled by a switch on the instrument panel.

There is a choice of two settings: fast warm-up (high power consumption) and continuous mode (moderate power consumption).

### Benefits & Arguments

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- Improved comfort in cold weather

## Window Glass - Tinted

### Details & Technology

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Green tinted windows all around.

The front windshield is green tinted laminated glass, while the other windows are of single-layer safety glass.

### Benefits & Arguments

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- Significantly reduces heating of the interior

Due to the tinting, heating of the interior is reduced when the vehicle is exposed to direct sunlight. This also reduces heating of the steering wheel and instrument panel.

## Windshield Glass - with Band Filter



### Details & Technology

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Green-tinted glazing, with darker tinted area along the upper edge of the windshield. The windshield is of laminated glass, while the other windows are of single-layer safety glass.

### Benefits & Arguments

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- Significantly reduces heating of the interior
- Prevents sun glare
- Enhances the look of the vehicle

The tinting reduces heating of the interior when the vehicle is exposed to direct sunlight, and thus also reduces heating of the steering wheel and instrument panel. The filter band reduces glare when the sun is low in the sky, but without impairing the driver's view of traffic.



## Defroster – Rear Window



### Details & Technology

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Windows with heating filaments are fitted in the rear doors. The rear window heating function is switched on and off by using a switch with an indicator light.

The rear window heating function can only be switched on when the engine is running. It switches off automatically after approximately 5 minutes. It can also be switched off manually using the switch.

### Benefits & Arguments

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- Ice on the rear windows is quickly thawed
- No fogging of rear windows

Prevents fogging of the rear windows in damp weather and at low outside temperatures.

## Roof Vent



### Details & Technology

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The mechanical roof fan is an intake and extractor fan. The fan is situated centrally on the roof, toward the rear of the sliding door.

The roof fan increases the overall height of the vehicle by approx. 125 mm [5 inches].

### Benefits & Arguments

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- Improved air intake and venting in the load compartment

The roof fan increases the rate of air intake in the load compartment and also provides venting while the vehicle is moving.

## Roof Fan, Electric



### Details & Technology

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The electric roof fan is an intake and extractor fan with a capacity of 350 m<sup>3</sup>/h [12,300 ft<sup>3</sup>/min]. Maximum power input is 32 watts. The fan is situated centrally on the roof, toward the rear of the sliding door. It is operated by using a switch on the center console.

The roof fan increases the overall height of the vehicle by 125 mm [5 inches].

### Benefits

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- Improved air intake and venting in the load compartment

The electric roof fan increases the rate of air intake in the load compartment and also provides venting.

### Remarks

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Roof vent is not available in combination with Sunroof

## Rear Heater Prep

### Details & Technology

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Two water lines (supply line/return line) are routed under the floor panel on the left-hand side of the vehicle, extending aft of the B-pillar.

The ends of the two lines are connected by a hose. Bodywork modifications for installation of a heat exchanger, the aperture in the wood floor for the warm air ducting and electrical parts are not included.

### Benefits & Arguments

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- Simplified fitting of auxiliary heat exchangers from the accessories range

The pre-installation package is recommended for body manufacturers who offer their own hot-water heating systems.

### Remarks

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Pre-installation auxiliary heat exchanger is not available with left-side sliding door or on cab chassis.

## Heater – Auxiliary Air, Electric

### Details & Technology

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The heater booster consists of radiator elements (fins) which are fitted with PTC (positive temperature coefficient) resistors and are held together in a mounting frame by spring clips. When an electric voltage is applied to the heater elements, an electric current flows through the PTC resistors, heating the elements. The fins absorb the heat and radiate it to the passing air. As soon as the engine is running, the electric heater booster steadily increases its power from 0 to 100% within 28 seconds.

The heater booster is located in close proximity to the air outlets, to keep heat losses to a minimum. The warmed air is circulated into the interior via the vehicle heater/blower system.

#### Switch-on conditions:

Coolant temp. < 80°C [176°F] and ambient temp. < 10°C [50°F].

#### Switch-off conditions:

Coolant temp. > 80°C [176°F] and ambient temp. > 13°C [55°F].

### Benefits

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- Aids quick defrosting of the windows
- Quick defogging
- Quicker warming of the interior
- Environmentally friendly, robust, long service life

The electric PTC heater booster is environmentally friendly, since no emissions are generated. Despite its lightweight, compact design it is robust, has a long service life and is highly efficient.

The PTC resistors are self-regulating, to prevent overheating. The heater booster assists with quick defrosting of the windows and helps to prevent fogging.

### Remarks

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Standard on all models.

## Air conditioning - Automatic



### Details & Technology

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TEMPMATIC air conditioning system consists of the standard heating and ventilation system plus integrated air conditioning (maximum cooling output approx. 7 kW [23,900 BTU]). The automatic temperature control maintains the temperature selected via the rotary temperature control.

A sensor regulates the intensity of the cooling. When the air conditioning is switched on, the fan automatically comes on at speed 1. Speeds 2, 3 and 4 can be selected manually. In high ambient temperatures and high humidity, the interior can be cooled quickly by selecting fan speed 4 and air recirculation.

The air conditioning can be switched on and off by using the switch on the instrument panel. The system includes a combination filter which removes particulate matter and fine particles from the incoming air. The filter has a service life of approximately 30,000 km [18,600miles] or one year under normal conditions.

### Benefits

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- A desirable interior temperature is maintained even in hot weather
- Automatic temperature control
- Integrated filter protects against dust and pollen

### Benefits

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Air conditioning is standard on all models

## Remote Control Auxiliary Heater



### Details & Technology

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The remote control can be used to switch the auxiliary heaters (H12 and HZ5) on and off. It has a maximum range of approximately 600 meters [2000 feet].

This range can be reduced by interferences, any large obstruction between the remote control and the vehicle, unfavorable positioning of the remote control or if it is used from inside a building. Maximum heater operating time is 60 minutes.

When the auxiliary heater is switched off using the remote control, the burner blower (H12 + HZ5) and the coolant pump (H12 only) continue running for approximately two minutes.

### Benefits

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- Remote control offers even greater comfort and convenience

The auxiliary heater can be switched on and off over long distances using the two buttons on the radio frequency (RF) remote control. Prior to the driver entering the vehicle, the windows can be defrosted and the interior (with H12 + HZ5) and engine (H12) preheated.

### Benefits

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The remote control is available with Rear Heating Package III (PH5).

Heater Auxiliary, Warm Water with Timer, 10 kW [34,000 BTU]





### Details & Technology

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The **dual-function water auxiliary heater** operates both as a heater booster and as an auxiliary (stationary) heater and can be used as an **engine block heater**.

**The booster** (10 kW [34,000 BTU]) mode is activated automatically depending of coolant temperature, whenever the engine is running. An indicator light comes on whenever the booster function is active. When the engine has been turned off, the heater booster continues running for approximately 2 minutes.

**The auxiliary heater** (5 kW [17,000 BTU]) can be switched on using a switch with indicator light. The indicator light comes on whenever this function is active. Maximum heating time is up to 2 hours depending on, amongst other things, coolant temperature. The auxiliary heater continues to run for 15 minutes after the engine has been switched off.

**If both** the auxiliary heater and heater booster functions are activated, the auxiliary heater has priority. After the auxiliary heater function has been switched off, either manually or automatically, the heater booster is activated automatically.

### Benefits & Arguments

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- Preheats engine block
- Quickly heats up the vehicle interior temperature
- Increased heating output aids quick defrosting of the windows

This system is particularly recommended for use in very cold climates. The very high thermal efficiency of the diesel engines means that at extremely low ambient temperatures their thermal energy may not always be sufficient to guarantee quick heating and a comfortable level of warmth in the cab. The auxiliary heating function allows the interior to be warmed even before the engine is started. The driver can therefore enter a pleasantly warm vehicle.

### Remarks

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The heater booster/auxiliary heater functions cannot be operated if the fuel level falls below 15 liters [4 gallons].

HZ5 is part of Rear Heating Package III (PH5)

#### Note:

As of 01/2010 US emission regulations require the heater to be only operational with outside temperatures below  $< 4^{\circ}\text{C}$  ( $39.2^{\circ}\text{F}$ ).

## Heater Booster (with engine running)



### Details & Technology

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The heater booster heater unit is a compact water heater that is connected to the engine coolant circuit.

The 5-kW [17,000BTU] heater booster can be switched on whenever the engine is running. The on/off switch is located to the right of the light switch. When the heater booster is switched on, a red indicator light comes on in the switch and a symbol lights up in the instrument cluster.

After the heater booster has been switched off, the coolant pump and the burner blower continue running for approximately 3 minutes, then turn off automatically.

### Benefits

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- Engine reaches operating temperature as quickly as possible
- Faster heater response

Since the thermal energy of a Diesel engine may not always provide adequate heating in extremely cold conditions, the heater booster helps the engine to reach its operating temperature more quickly, and to maintain it. This also means quicker heater response.

### Remarks

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Recommended for passenger vans in cold climate areas. Recommended for cargo vans without partition in cold climate areas.

Heater Booster is available as a standalone option (HZ9) or part of Rear Heater Package I (PH3)

**Note:**

As of 01/2010 US emission regulations require the heater booster to be only operational with outside temperatures below  $< 4^{\circ}\text{C}$  ( $39.2^{\circ}\text{F}$ ).

## Speedometer in mph and km/h



### Details & Technology

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The speedometer dial is calibrated in miles.

It is possible to display the speed in km/h instead of temperature in the digital display.

## Fuel level display adjusted for additional fuel requirements

### Details & Technology

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In the standard specification, the fuel level display in the instrument cluster is controlled solely by the fuel consumption as calculated by the onboard computer. The level is only reconciled with the fuel level sensor in the tank and corrected when a refuelling operation is detected.

With this code, the fuel level display in the instrument cluster is reprogrammed so that it is solely controlled by the fuel level sensor in the tank, and shows the approximate amount of fuel remaining in the tank.

### Benefits & Arguments

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- The approximate amount of fuel remaining in the tank is shown in the instrument cluster
- Protection against unexpected breakdowns due to an incorrect fuel level shown in the instrument cluster

This code is recommended for vehicles that operate e.g. additional electric/air conditioning generators using the vehicle fuel, and which therefore take a large quantity of fuel from the tank. The approximate amount of fuel remaining in the tank is shown by the fuel level display, which protects the driver from unexpected breakdowns due to an incorrect fuel level shown in the instrument cluster.

## Warning System-Driver Seat Belt



### Details & Technology

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A warning light and buzzer are triggered if the driver's seat belt is not fastened.

### Benefits & Arguments

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- (Indirectly) enhanced passive safety

Reminds driver to fasten seat belts, thereby indirectly increasing passive safety.

## Temperature Gauge



### Details & Technology

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Temperature sensor in front bumper with digital display in instrument cluster.

### Benefits & Arguments

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- Displays the current outside temperature

The temperature display gives the driver advance warning of icy conditions.

## Light and Rain Sensor



### Details & Technology

Combined rain/light sensor fitted in the base of the interior mirror.

Depending on the light switch position, the low-beam headlamps are switched on when it gets dark, when the vehicle enters a tunnel, or when it's raining or snowing. The light sensor continuously compares the ambient light level outside the vehicle with a set value and, when appropriate, switches the headlamps on and off.

Depending on the position of the windscreen wiper combination stalk, the windscreen wipers too are automatically activated when conditions require.

The sensor aims an infrared light beam at the windscreen at a defined angle. The intensity with which the light is reflected back depends on how many water droplets the windscreen has. Based on the amount of reflected light, the system adjusts the wiper interval to anything from a single wipe to continuous wiping.

The sensing zone is heated to prevent ice and condensation forming.

### Benefits & Arguments

- Automatically controlled optimal wiping interval
- Low-beam headlamps switched on and off automatically

The ideal wiping interval is ensured under all weather conditions.

The headlamps are switched on and off automatically in response to changes in the ambient light level outside the vehicle.

## Instrument Panel Cluster Pixel Matrix



### Details & Technology

The instrument cluster with pixel matrix display consist of an analog speedometer (left), a RPM gauge, a fuel gauge in the lower part of the dial (right) and a two-part pixel matrix display (centre). The white dials, along with their hands and scales, are backlit by yellow LED's. The pixel matrix display is illuminated by yellow LED's (red LED's for warning messages in the upper status field).

The pixel matrix display shows a range of information, including display settings, time of day, auxiliary heater status, lighting and tire pressure information, speed limiter setting, warning messages and audio, CD, MP3, telephone and trip computer functions.

Most operations can be performed from the multifunction steering wheel (Code CL4).

### Benefits

- More information can be displayed

The pixel matrix display offers enhanced display and information capabilities.

### Remarks

Pictures shows European version. North American version similar.



## Alarm - Rear Backup

### Details & Technology

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When the back up gear is selected with the ignition switched on, an audible signal is activated.

If the reverse gear is engaged twice within 4 to 5 seconds, the volume of the reversing warning signal switches to the **quieter setting**. This procedure must be repeated every time the vehicle is backing up for a reduced signal volume.

The back up warning system **cannot be switched off**. Switching off the ignition reactivates the default setting. The horn for the reversing warning system is normally fitted on the inner side of the end cross-member.

A sticker stating that reverse gear should be engaged twice in quick succession to set the reversing beeper to the nighttime (quieter) setting is enclosed with the vehicle documentation.

### Benefits & Arguments

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- Warns people that a vehicle is reversing

### Remarks

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Choice of 2 signal volumes:

- a) standard volume 90 decibels
- b) nighttime volume max. 78 decibels and 68 decibels at a distance of 7.5 m [24.5 ft].

## Deactivate Lamp Monitoring Failure

### Details & Technology

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This code deactivates the monitoring of the vehicle's exterior lighting system.

### Benefits

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- Makes it possible for aftermarket lamps to be fitted to the vehicle

Provided that the maximum lamp load is not exceeded, it is possible to connect further lamps to the vehicle's electrical system without the indicator lamp in the instrument cluster lighting up and an error being incorrectly recorded in the SAM control unit memory.

Body builders can fit lamps which are needed for the specific body.

License plate light:	1.0A
Backup light:	2.4A
Turn signal:	1.75A -1.96A (max 2.1Amp)
Fog light:	N/A (tape back)
Tail light:	1.0A

When using LED's, a resistor must be used to compensate for the lower AMP draw. Turn Signal LED's AMP draw is recommended to be between 1.75A – 1.96A (max 2.1Amp) otherwise rapid flashing will occur.

Please consult the Body Builder Information Book for further information.

### Benefits

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Standard on Chassis Cab.

## Exhaust Straight to Rear



### Details & Technology

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The exhaust pipe runs in a straight line to the rear and ends shortly before the rear of the vehicle.

### Benefits & Arguments

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- Rear-exiting exhaust
- Recommended for vehicles used in applications such as passenger transport and distribution work

Standard on all models.

**Fuel Tank – 26.4 Gallon****Details & Technology**

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A large, 26.4 gallon [100 liter] fuel tank is fitted underneath the vehicle.

## Auxiliary Fuel Sending Unit



### Details & Technology

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The fuel gauge sensor is fitted with an additional fuel connection to facilitate retrofitting of a fuel-powered auxiliary heater and/or generator. The fuel tank can be consumed down to approx. 5 gal.

A 'pig tail' (see picture) is located next to the fuel filler pipe and can be easily accessed from the driver side.

### Benefits

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- Simplified retrofitting of an auxiliary heater

### Benefits

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See the Body Builder Book for more information.

Standard on all models.

## Fuel filter with water separator



### Details & Technology

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Fuel filter with water separator and sensor, for diesel engines. The water separator absorbs the water in diesel fuel with high water content. An indicator light informs the driver when the water separator is full.

For servicing and cleaning, see the Operating/Service Instructions.

### Benefits & Arguments

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- Enhanced reliability when using poor-quality fuel

Enhanced engine reliability when using diesel fuel with high water content.

## Small DEF Tank 3.2gal Capacity



### Details & Technology

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This smaller tank (12 l [approx. 3.2gal]) is located on the front RH side under the headlamp behind the front bumper. The filler neck is the same as the 2010 Sprinter Cargo and Passenger Vans. The tank is bolted to the front RH longitudinal and front cross member at three attachment points.

### Remarks

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Depending on model variant some options may not be available or included. Please always consult your Sprinter dealer.

Please be aware that this option is not retrofittable.

The expected consumption range will be approx half of conventional DEF tank.

## Automatic daytime running lights

### Details & Technology

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Low beam switches on automatically as soon as the engine is running. Light switch must be in the **off** position.

### Benefits & Arguments

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- Meets the legal requirements of certain countries
- Vehicle is seen sooner by other road users

Daytime lighting enhances safety. A vehicle with its lights on is more easily noticed by other road users.



## Fog lamps, Bumper mounted



### Details & Technology

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The bumper mounted fog lamps are activated using the rotary light switch.

### Benefits & Arguments

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- Better visibility in adverse weather conditions

The H7 fog lamp improves road illumination in fog, heavy rain or snow without blinding oncoming traffic, and thus provides enhanced safety.

## Light – Load Compartment



### Details & Technology

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A ceiling light is fitted in the roof center at the rearmost roof bow. A second ceiling light is fitted centrally on the C-pillar bow.

The manual on/off switch is located on the rear portal light (standard equipment). The light is also switched on and off automatically, when the sliding door/doors and the rear doors are opened and closed.

### Benefits

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The lighting provides additional illumination in the load compartment, for a better view when loading and unloading.

## Lamps - Cargo Compartment



### Details & Technology

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Two additional ceiling lights are fitted at the roof frame on the side of the cargo compartment/passenger compartment.

A door contact switch turns the lights on and off when the cargo compartment doors are opened and closed. The lights can also be switched on and off by using the switch for the standard light at the rear of the roof frame.

### Benefits & Arguments

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- Allows more light into load compartment/ passenger compartment

## **Light - Motion Sensor Load Compartment**

### **Details & Technology**

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A motion sensor automatically activates the load compartment lighting if motion is detected in the load compartment when the vehicle is parked.

### **Benefits**

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- Automatic load compartment illumination

As soon as person moves inside the rear section, the lighting is automatically activated to provide improved illumination.

## Wiring for Interior Lighting



### Details & Technology

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Instrument panel switch and wiring to rear cross-member. (Chassis Cab)

The interface supports bulb loads up to a maximum of 4 Amps and ohmic loads up to a maximum of 10 Amps.

### Benefits & Arguments

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- Simplifies retrofitting of load compartment lighting

Allows body manufacturers to install cargo compartment lights quick and easy.

Available for Chassis Cab.

## Tail Lamp Wire Harness with 6.5ft Extension

### Details & Technology

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These are approx. 2 meters [6.5ft] long tail light extension cables.

They are rolled up and temporarily fastened on each side of the frame.

### Benefits

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- Makes it easy to fit the tail lights in a different position

The extended tail-light line serves as a pre-installation, e.g. for body manufacturers who wish to fit the tail lights in a different position.

### Remarks

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See Body Builder Book for more information.

## Wiring for Additional Turn Signals



### Details & Technology

Wiring for additional turn signals left/right, wire located at rear cross member, blink module located in driver seat pedestal.

### Benefits

- Easy fitting of additional direction indicators

The additional electric wiring makes to add additional turn signals on the body.

### Benefits

If a vehicle is equipped this way and the customer does not wish to use the additional turn signal, simply remove the blink module located in the driver seat simply by pulling it upward.

Available for Chassis Cab

## Tail Lamp Deleted

### Details & Technology

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The vehicle is supplied without lights or turn signal at the rear of the vehicle but with the relevant connector and wiring.

Body builders can fit aftermarket lamps:

License plate light:	1.0A
Backup light:	2.4A
Turn signal:	1.75A -1.96A (max 2.1Amp)
Fog light:	N/A (tape back)
Tail light:	1.0A

When using LED's, a resistor must be used to compensate for the lower AMP draw. Turn Signal LED's AMP draw is recommended to be between 1.75A – 1.96A (max 2.1Amp) otherwise rapid flashing will occur.

Please consult the Body Builder Information Book for further information.

### Benefits

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- Pre-installation for alternative rear lights

Allows body manufacturers to fit alternative lights and direction indicators at the rear of the vehicle.



## Lamp – 3<sup>rd</sup> brake light



### Details & Technology

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An additional LED brake light is fitted at the rear edge of the panel van or passenger van roof. The third brake light does not affect the height of the vehicle at the rear.

### Benefits

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- Enhanced active safety

## Illuminated Exit



### Details & Technology

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The exit lights are integrated in the driver's and co-driver's doors. They direct their light down onto the ground when the doors are opened.

If a rubber flooring is ordered for the cargo compartment/passenger compartment, a further exit light is fitted in the step trim of the sliding load-compartment door.

### Benefits & Arguments

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- Improves safety when getting in and out of the vehicle

As the doors opens, the exit lights turn on automatically.

## Overhead Control Panel with 2 Lamps



### Details & Technology

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The standard ceiling light in the cab roof is replaced by an overhead control panel with two reading lights which can be switched on and off separately. The switches are located in the overhead control panel.

The overhead control panel also incorporates a sunglass compartment.

If the vehicle is fitted with an alarm system (Code FY1, FZ4) the sunglass compartment is replaced with an alarm control unit.

### Benefits

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The reading lights provide targeted lighting for the driver and co-driver.

Allows the co-driver to turn his reading lights on without distracting the driver.

### Remarks

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If the light is switched on **manually** by using the switch in the overhead control panel, it is **automatically** switched off again after approx. 20 minutes.

## Lights - Convenience, Cargo/Pass Compartment



### Details & Technology

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The standard-fit interior lights have an additional switch on the dashboard to turn on the light over the seat rows.

The light switch on each seat row only operates the designated light and has three settings: "Off", "On" and "Door contact". In the "Door contact" position the light comes on when the door is opened and turns off when the door is closed.

The switch on the dashboard allows the driver to activate or deactivate the switch settings for the lights in the rear.

All doors are fitted with door contact switches and the **battery is discharge-protected**.

### Benefits

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- The lighting in the rear compartment can be switched on/off separately at each seat row

The cargo compartment/passenger compartment lighting can be switched on and off from any seat in the vehicle.

## Headlamps - Bi-xenon - US

### Details & Technology

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The bi-xenon headlamps use xenon lighting technology to produce both the **low and high-beam lights**.

The light source is a gas HID (High Intensity Discharge) lamp which produces a luminous arc in a quartz bulb filled with a gas mixture. The same gas discharge bulb is used for both the low and the high-beam lighting.

The high beam is produced using the full light beam, while the low beam is produced by moving a shutter between the bulb and the lens, so that the long-range portion of the light is blocked off, thus preventing blinding oncoming traffic.

**Sensor-controlled dynamic range adjustment** automatically counteracts changes in the angle of the headlamps caused by changes in the attitude of the vehicle when braking or accelerating, or due to changes in payload, and prevents blinding for oncoming drivers.

If the windscreen washer is operated when the headlamps are switched on, water jet nozzles are automatically extended and the headlamps are cleaned with a high-pressure jet.

### Benefits

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- Significantly increased range in low-beam mode
- Wider illumination of the road perimeter in low-beam mode
- Long service life
- Automatic headlamp range adjustment prevents oncoming traffic from being blinded

The bi-xenon headlamps, headlamp range adjustment and the headlamp cleaning system considerably improve the illumination of the road.

### Remarks

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Vehicles with bi-xenon headlamps are fitted with automatic headlamp range adjustment and a headlamp cleaning system.

## Headlamps - Bi-xenon – Canada (w/cornering light)



### Details & Technology

The bi-xenon headlamps use xenon lighting technology to produce both the **low and high-beam lights**.

The light source is a gas HID (High Intensity Discharge) lamp which produces a luminous arc in a quartz bulb filled with a gas mixture. The same gas discharge bulb is used for both the low and the high-beam lighting.

The high beam is produced using the full light beam, while the low beam is produced by moving a shutter between the bulb and the lens, so that the long-range portion of the light is blocked off, thus preventing blinding oncoming traffic.

**Sensor-controlled dynamic range adjustment** automatically counteracts changes in the angle of the headlamps caused by changes in the attitude of the vehicle when braking or accelerating, or due to changes in payload, and prevents blinding for oncoming drivers.

If the windscreen washer is operated when the headlamps are switched on, water jet nozzles are automatically extended and the headlamps are cleaned with a high-pressure jet.

In addition to the normal road illumination provided by the low-beam headlamps, at speeds up to 40 km/h [25mph] a cornering light is turned on when signaling and turning the steering wheel.

This light may also be activated when cornering at speeds up to approx. 70 km/h [43mph] (with low beam on/turn signal off), depending on the steering angle and the radius of the turn. The cornering light is turned on gradually.

When backing up to the right, the left-hand cornering light comes on at the front. When backing up to the left, the right-hand cornering light comes on.

**Benefits**

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- Significantly increased range in main-beam mode
- Wider illumination of the road in low-beam mode
- Long service life
- Automatic headlamp range adjustment prevents oncoming traffic from being dazzled
- Extended vision with cornering light
- Reduced accident risk when making a turn in the dark

**Remarks**

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The bi-xenon headlamps are fitted with automatic headlamp range adjustment, cornering lights and a headlamp cleaning system.

## Clearance light prep



### Details & Technology

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Connector for aftermarket identification lights. Located inside the driver seat pedestal. Is usually taped to the floor.

- clearance/ident. light prewire (red/yellow)
- ground (brown)

Fused with 7.5 AMP.

### Benefits

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Allows identification and clearance lights to be retrofitted easily.

### Remarks

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Chassis Cab only