



Sprinter PSM Software

Standard Program: Work Trucks

Commercial Vans PSM Support

Mercedes-Benz
Vans. Born to run.



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This bulletin is not intended to serve as a work instruction, but merely to provide some helpful information for Upfitters to take into consideration before retrofitting or modifying a Mercedes-Benz Sprinter Van.

Prior to making any modification to or installing any equipment in or on a Mercedes-Benz or Freightliner Sprinter, you should review and ensure compliance with all applicable laws and regulations, consult with Vans Engineering Support for Upfitter Management for additional and updated information, and read the Body & Equipment Guidelines for Sprinter Model Series 907.

The PSM software is a customized and tailored software solution designed for a specific customer application matched to a specific Sprinter model configuration.

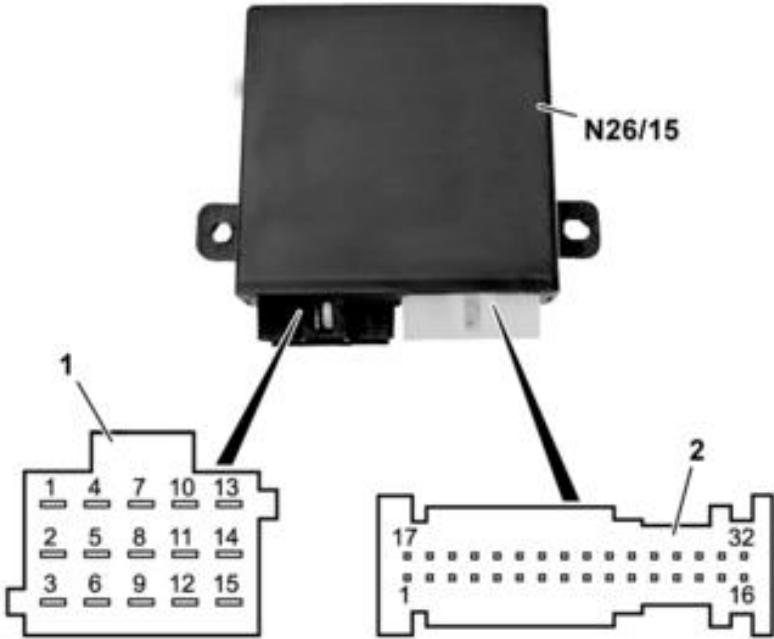
Exception: Factory Options T57 have factory PSM software installed

For more information or upfit inquiries, please visit www.UpfitterPortal.com

Parameterizable Special Module (PSM) Information

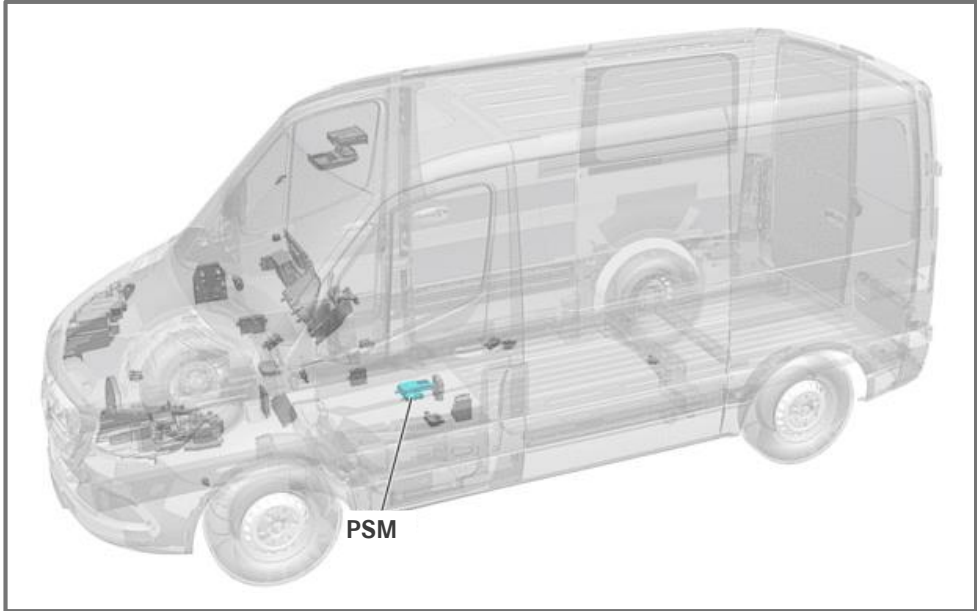
Part	Part Number
Specification (Parameterizable Special Module)	A 907 900 53 03
Hardware	A 907 901 76 01
Software	A 907 902 56 02

Plug	Part Name	Part Number
1	Plug 1 housing	A 013 545 63 26
	2.8 mm MCP pins	A 013 545 76 26
2	Plug 2 housing	A 005 545 28 30
	Cover	A 000 545 91 03
	0.64 mm MQS pins	A 013 545 44 26



Software Specifications

The following software package provides 4 input and 19 output functions for upfits related to work truck vehicles. The program provides access to muting the radio, engine start prevention, activating hazard lights, and vehicle information such as door open status, gear status, vehicle ignition status, and light status.



Please note that not all inputs and outputs need to be used. Use only applicable inputs and outputs.

Additional info: EK1 – Auxiliary electrical connector under driver's seat

Terminal	U [V] / I [A]	wire color
1 st power with engine running	12V / 10A	blue/yellow
2 nd battery direct power	12V / 25A	red/gray
3 rd ignition power	12V / 15A	black/yellow

Input Specification

#	Input Signal	Connector	Pin	Trigger Type	Comments
5	Starter disabled	2	7	Low	
6	Mute radio	2	8	Low	
7	Mute radio only when in reverse	2	11	Low	Input active & gear in 'R'
8	Hazard warning lights	2	24	Low	

Low Side values activate the signal upon application of Ground to the PSM pin and deactivate when Ground is removed.

High Side values activate the signal upon application of +12V to the PSM pin and deactivate when +12V is removed.

Vehicle Power States	
Terminal	Common Name
30	Battery Power
30r	Timed Battery Power
31	Chassis Ground
15c	Key In Ignition (Ign. Position 0)
15r	Key On (Ign. Position 1)
15x	Accessory Power (Ign. Position 2)
15	Ignition*
50	Engine Cranking
61	Engine Running
* Active during 15x, 50, and 61	

Output Specification

#	Output Signal	Connector	Pin	Max Amps	Output Type	Comments
1	Ignition start signal	1	5	5	High	Terminal 50
2	Ignition accessory	1	2	10	High	Terminal 15R
3	Right sliding door open	1	11	5	High	
4	Ignition on	1	7	10	High	Terminal 15
5	Rear door open	1	3	5	High	
6	Engine running	2	21	1	High	Terminal 61
7	Any door open	2	20	1	High	Driver/Passenger/Right sliding/Rear doors
8	Vehicle unlocked state	2	4	0.5	High	2 Seconds signal
9	Vehicle locked state	2	5	0.5	High	2 Seconds signal
10	Cargo unlocked state	2	6	0.5	High	2 Seconds signal
11	Gear NOT in 'P'	2	1	0.5	Low	
12	Brake lamps	2	19	0.5	Low	
13	Hazard warning lights on	2	17	1	Low	
14	Driver Seat belt OFF when gear NOT 'P'	2	2	0.5	Low	
16	Vehicle speed > 0 mph	2	22	0.5	High	
17	Park brake on	2	18	1	Low	
18	Driver door open	1	6	5	High	
19	Gear in 'P'	1	12	5	High	
20	Gear in 'R'	1	14	5	High	

Low Side values supply Ground when activated and remove Ground when inactive.

High Side values supply +12V when activated and remove +12V when inactive.

Vehicle Power States	
Terminal	Common Name
30	Battery Power
30r	Timed Battery Power
31	Chassis Ground
15c	Key In Ignition (Ign. Position 0)
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