



Sprinter PSM Software Standard Program: RV

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.

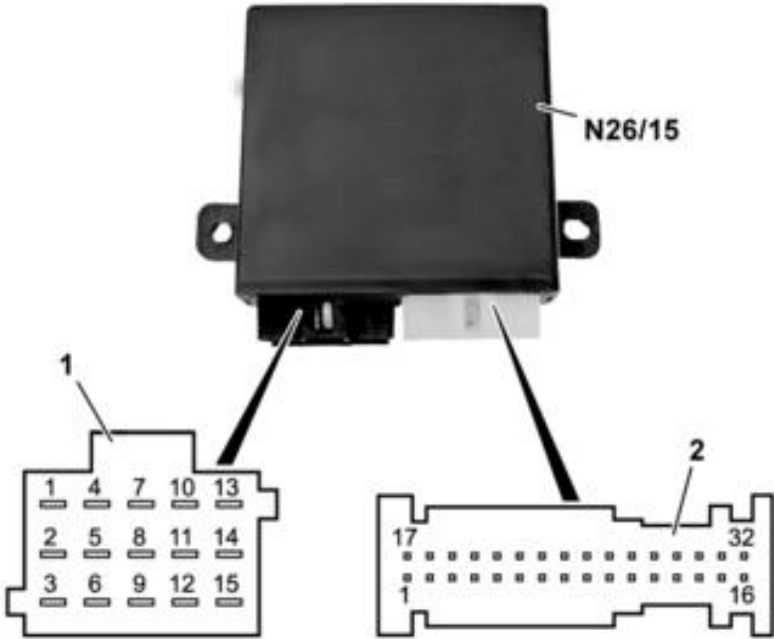
Exception: Factory Options T57 have factory PSM software installed

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

Parameterizable Special Module (PSM) Information

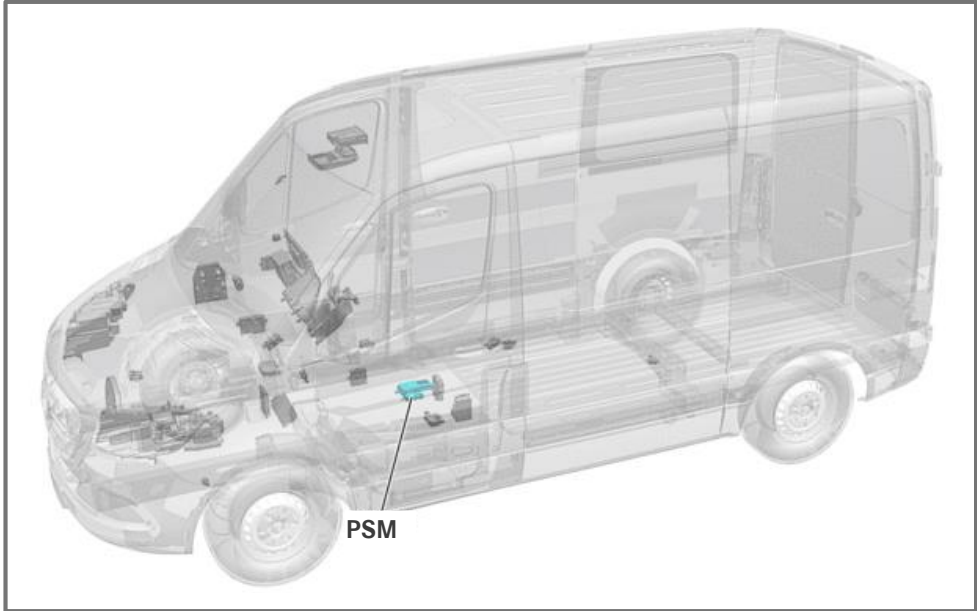
Part	Part Number
Specification (Parameterizable Special Module)	A 907 900 53 03
Hardware	A 907 901 76 01
Software	A 907 902 56 02

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 2 input and 19 output functions for upfits related to recreational vehicles. The program provides access to vehicle's locking functions and vehicle information such as door open status, gear 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	Vehicle Lock	2	7	Low	
8	Vehicle Unlock	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	Passenger door open	1	5	5	High	
2	Ignition on	1	2	10	High	Terminal 15
3	Brake lights	1	11	5	High	
4	Standing lights	1	7	10	High	
5	Driver door open	1	3	5	High	
6	Right turn signal	2	21	1	High	Constant signal when active
7	Left turn signal	2	20	1	High	Constant signal when active
8	Vehicle locked state	2	4	0.5	High	2 Seconds signal
9	Vehicle unlocked state	2	5	0.5	High	2 Seconds signal
10	Vehicle speed > 0 mph	2	6	0.5	High	
11	Park brake on	2	1	0.5	Low	
12	Any door open	2	19	0.5	Low	Driver/Passenger/Right sliding/Rear doors
13	Right sliding door open	2	17	1	Low	
14	Park brake on & Ignition on	2	2	0.5	Low	
16	Gear NOT in 'P'	2	22	0.5	High	
17	Rear door open	2	18	1	Low	
18	Accessory power	1	6	5	High	Terminal 15R
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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