# Sprinter PSM Software
# Standard Program: Fleets

Commercial Vans PSM Support

Mercedes-Benz
Vans. Born to run.

# Disclaimer

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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.

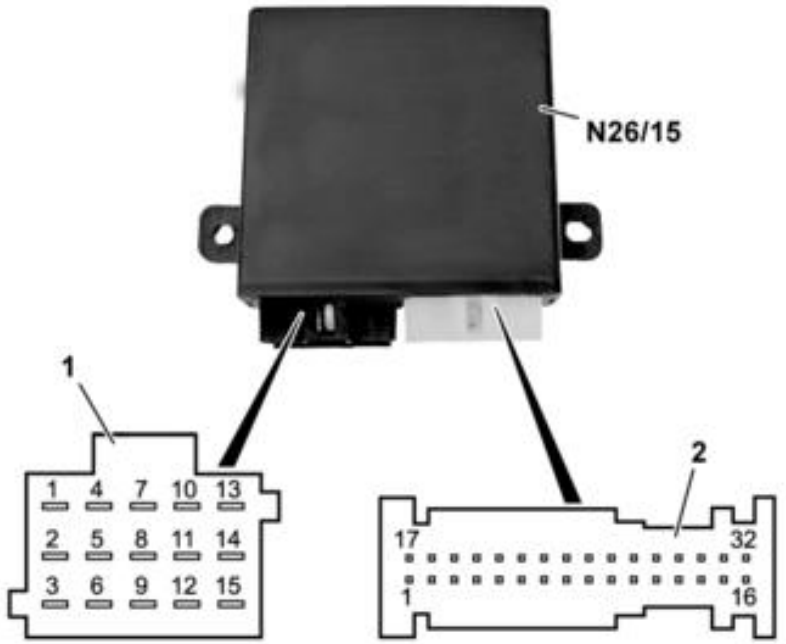
The PSM software is a customized and tailored software solution designed for a specific customer application matched to a specific Sprinter model configuration.
*Exception: Factory Options T57 have factory PSM software installed*

**For more information or upfit inquiries, please visit [www.UpfitterPortal.com](http://www.UpfitterPortal.com)**

# Parameterizable Special Module (PSM) Information

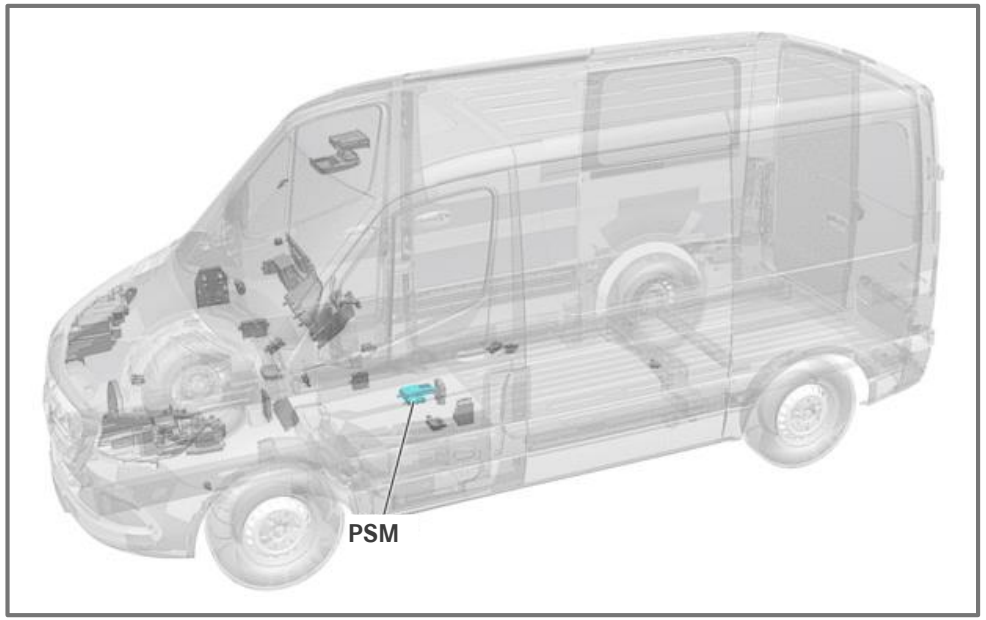
| Part | Part Number |
|---|---|
| **Specification (Parameterizable Special Module)** | **A 907 900 53 03** |
| Hardware | A 907 901 76 01 |
| Software | A 907 902 56 02 |

| 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 |



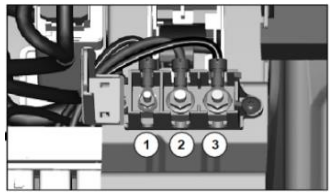
# Software Specifications

The following software package provides 3 input and 19 output functions for upfits related to fleet vehicles. The program provides access to muting the radio, 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 |
|---|---|---|
| 1st power with engine running | 12V / 10A | blue/yellow |
| 2nd battery direct power | 12V / 25A | red/gray |
| 3rd ignition power | 12V / 15A | black/yellow |

# Input Specification

| # | Input Signal | Connector | Pin | Trigger Type | Comments |
|---|---|---|---|---|---|
| 5 | Mute radio | 2 | 7 | Low | |
| 6 | Mute radio only when in reverse | 2 | 8 | Low | Input active & gear in ‘R’ |
| 7 | Hazard warning lights | 2 | 11 | 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 | Accesory 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 | Rear door open | 1 | 5 | 5 | High | |
| 2 | Any door open | 1 | 2 | 10 | High | Driver/Passenger/Right sliding/Rear doors |
| 3 | Brake lights | 1 | 11 | 5 | High | |
| 4 | Ignition on | 1 | 7 | 10 | High | Terminal 15 |
| 5 | Right sliding 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 | Cargo doors locked state | 2 | 5 | 0.5 | High | 2 Seconds signal |
| 10 | Vehicle unlocked state | 2 | 6 | 0.5 | High | 2 Seconds signal |
| 11 | Driver Seat belt OFF when gear NOT 'P' | 2 | 1 | 0.5 | Low | |
| 12 | Accelerator pedal pressed > 80% | 2 | 19 | 0.5 | Low | |
| 13 | Park brake on | 2 | 17 | 1 | Low | |
| 14 | Vehicle speed above 65 mph | 2 | 2 | 0.5 | Low | |
| 16 | Cargo doors unlocked stated | 2 | 22 | 0.5 | High | 2 Seconds signal |
| 17 | Passenger door open | 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 |
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| 30r | Timed Battery Power |
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