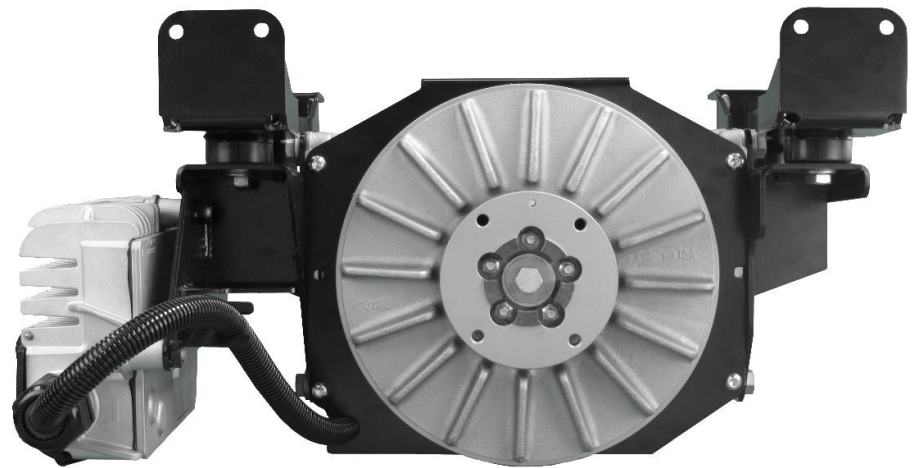


Operating manual Mercedes-Benz Sprinter 907



Information about the operating instructions

This supplement applies to the Sprinter 907 operating instructions and gives instructions for operating the retarder. Please, keep this supplement together with the operating instructions in the vehicle.

Retarder function

The Telma retarder is operational as soon as the engine is started.

Serial control mode: foot control

The depression of the brake pedal directly controls the progressive activation of the Telma retarder. The braking power of the retarder is steplessly regulated via the brake pedal position and relieves the service brake. The retarder braking effect starts with actuation of the brake pedal (service brake).

At speeds below 3 km/h, the retarder will automatically switch off.

- ④ The braking effect of the retarder decreases with the duration of use and with the operating temperatures.
- ④ When the ABS is active, the retarder automatically shuts off for the duration of the ABS control.

Optional control mode: operation with the hand lever

If your Mercedes-Benz Sprinter is equipped with a hand lever, it is built into the dashboard and includes 4 active stages:

- ④ Stage 0: no retardation
- ④ Stage 1: 25% Telma power
- ④ Stage 2: 50% Telma power
- ④ Stage 3: 75% Telma power
- ④ Stage 4: 100% Telma power

The tiering of the device control stages enables to choose the Telma retarder's power adapted to the driving conditions. The hand lever must be operated with a short pause between each stage.



Engine cruise control mode

- ④ If the engine cruise control (Tempomat) has been selected, the engine delivers a positive torque so that the retarder hand control mode cannot be activated against the engine. For enabling the hand control activation, it is first necessary to release the engine cruise control selection or to depress the brake pedal.
- ④ If the hand control mode has been selected by moving the retarder hand lever to one of the 4 active stages, the engine cruise control function (Tempomat) cannot be selected. For selecting the engine cruise control, it is first necessary to move the retarder hand lever to stage 0.

Operation



Urban driving: the Telma retarder is efficient even at very low speeds. It is most efficient in all types of common decelerations, even without using the service brakes, and until the vehicle is nearly stopped. Its very smooth action prevents jerks and improves passenger comfort.



On roads and highways: the Telma retarder guarantees necessary decelerations, even at high speed and/or in heavy traffic. With a Telma retarder, driving is smoother since decelerations are better anticipated and less abrupt.



On winding roads: it may be useful to intermittently combine the action of service brakes to that of the Telma retarder, to better adjust the vehicle's speed to the road profile (particularly when entering turns). However, anticipating while driving should make it possible to refrain from using the service brakes. This allows you to reach a speed appropriate for the topography and course of the road as quickly as possible.



In very steep downhill: it is recommended to combine the action of the Telma retarder with that of the engine retardation while shifting down for better using the gearbox ratios.

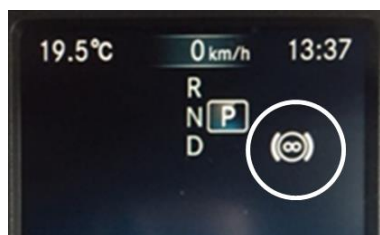


On snow, ice, mud The Telma retarder is designed to withstand extreme temperatures and severe weather conditions. The full integration of the Telma retarder with electronic driving assistance systems and safety devices (when available) ensures the absence of risk linked to its use, regardless of the wheel grip conditions. When tire adherence becomes very weak, the progressive characteristic of the Telma retarder torque is particularly noticeable.

Note on the fault indicator

If there is a fault in the retarder system, the driver will be notified by one of the following indications, depending on dashboard type:

- ③ **Color display:** The white symbol lights up in the upper status line of the display.
- ③ **Standard dashboard:** the yellow warning light lights up.



WARNING: danger of skidding and accidents in case of failure of the retarder

If the retarder or retarder control unit malfunctions, the driving behaviour and braking behaviour may change. The vehicle can brake uncontrollably. The wheels can lock and thus lose grip. The vehicle may skid. During the overtaking process, the acceleration of the vehicle may be less than desired. The overtaking process takes longer and may need to be stopped.

- ③ Drive with special care or stop in traffic
- ③ Check the retarder immediately in a qualified workshop and have it repaired.
- ③ Always observe the warning lights and display messages and follow the corrective actions described.

Retarder check

The scope and frequency of maintenance depends on the different operating conditions. The service booklet of the vehicle describes the extent and frequency of service work and contains additional information on material defects and consumables. The execution of test and maintenance requires special expertise that cannot be taught within the scope of this operating manual. Have this work done by trained personnel.

Visual inspection and condition check of the mechanical components:

- ③ Check screw tightening torques.
- ③ Check condition and appearance of retarder brackets and chassis brackets

Visual inspection and condition check of the electrical components:

- ③ Check cable condition and repair any chafe marks
- ③ Check electrical connections condition.



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