



Mercedes PowerShift.

Geared towards performance, efficiency and reliability.

Mercedes-Benz

Trucks you can trust



Mercedes PowerShift. The automated gearshift with a star.

Do you want to achieve more? More profitability, more reliability, more performance. Then you should think about a shift into the future: with Mercedes PowerShift.

Mercedes PowerShift is the tried and tested, high-performance automated gearshift system for the Mercedes-Benz Actros. Available with 12 and 16 speeds, Mercedes PowerShift offers tailor-made solutions for all operating conditions.

Providing over 30 years of experience and expertise in the production of automated manual transmissions for trucks, Mercedes PowerShift features sophisticated control technology for gear changing, as well as a range of new functions for improved vehicle handling and enhanced driving comfort.

Thanks to its rugged gearbox technology and superior shift strategy, the risk of gearshift errors is eliminated, which reduces wear, improves driving performance and increases safety.

The optimal gear selection of Mercedes PowerShift supports an economic and fuel efficient driving style. All shift operations take place in the optimal rpm range, which minimizes wear on the transmission and engine. Mercedes PowerShift functions are selectable by the driver and enable:

- greater economy
- maximized vehicle performance
- enhanced driving and operating comfort



Low fuel consumption

Gearbox design, intelligent gearshift strategy and the EcoRoll mode ensure fuel-saving.



High gearshift speed

Gearbox and clutch control ensure shorter gearshift times and improved driving dynamics.



Outstanding comfort

Enhanced engine, clutch and gearbox control enable softer gear changes.



Superb handling

Maneuvering mode and direct shifting between 1 and R enable easier and faster handling.



Increased robustness

Gearbox construction with wider gears enables transfer of higher torques.



Improved performance

Power mode allows short-term use of the full engine power.

Innovative functions for various driving situations.

Maneuvering mode



Exact, smooth start-off and precisely metered vehicle motion – the maneuvering mode ensures optimum comfort and safety even in difficult driving scenarios. Sensitive clutch control is guaranteed by providing the full range of the accelerator pedal and engine speeds up to 1,000 rpm. Maneuvering mode can be operated in the first forward gear and the first reverse gear.

- Enables maneuvering of the vehicle to the desired position, sensitively, precisely and safely.

Power mode



Power mode is activated at the touch of a button, enabling the driver to call upon enhanced power over a short period. This increases the vehicle's agility and allows the driver to mobilize power reserves in specific situations, e.g. on uphill stretches, when joining motorway traffic or when overtaking. Power mode is deactivated automatically after ten minutes and the system returns from a power-focused to a consumption-optimized driving style.

- Increased vehicle performance through higher gear shifting points.

At the push of a button.

EcoRoll mode



EcoRoll mode supports the driver by keeping the truck rolling without touching the pedals. It is activated at speeds exceeding 55 km/h, when the driver or the cruise control do not accelerate or brake for at least 1 second. Powertrain deceleration is interrupted by automatically setting the transmission to a neutral position. As soon as the brake or accelerator is applied again, the correct gear is selected automatically.

- Enhances fuel efficiency.

Rocking free mode



Rocking free mode assists the driver if a vehicle gets stuck in a recess on a soft surface. Activated at the touch of a button, it can be utilized for all pulling-away gears (forward and reverse) up to a speed of 5 km/h. Pressing the accelerator pedal simultaneously engages the clutch. Quickly releasing the accelerator disengages the clutch – causing the vehicle to roll back and forth, creating a rocking motion. This process can be repeated until the driving wheels grip the surface again and the truck can drive away.

- Helps to control difficult driving situations.

Ready to perform when you are.



Rapid reverse

Mercedes PowerShift features four reverse gears, making reversing easier than ever before. Two of the four reverse gears offer a rapid transmission ratio at higher speeds. This is highly beneficial for extended distances in reverse or long access lanes without turning opportunity.

Kick-down function

Fully pressing the accelerator pedal activates a kick-down function delivering a burst of extra power and torque. This provides a valuable margin of extra performance, versatility and safety, especially in situations such as overtaking or joining fast-flowing traffic.

Direct shift between 1 and R

Another convenient feature of Mercedes PowerShift is the ability to switch directly from first gear into reverse. Engaging neutral in the process is no longer necessary. Simply hold down the function button with your thumb and the gear switches smoothly from first to reverse. Direct shift between 1 and R assists the driver when maneuvering, enabling him to move the vehicle forward and backward faster and more conveniently. This saves time and hassles, easing the driver's workload.



Economic and safe driving. Everytime and everywhere.

Extended functionality for cruise control

Thanks to an extended tolerance range, the drive and braking cruise-control systems deliver improved ride comfort and optimum exploitation of the EcoRoll mode. Where the usual speed tolerance for the cruise control is fixed at 4 km/h, with Mercedes PowerShift it can now be set to anywhere between 2 and 15 km/h. This enables the driver to get the most out of vehicle momentum, lowers fuel consumption and raises the average speed.



Gear Selection Lever

The Mercedes PowerShifts primary controls are located directly beside the driver's seat. The left hand button on the lever enables the gear selection, either forward or reverse. Pressing the right hand button selects the neutral position. Just behind this is the Manual/Automatic mode switch which allows full control of the gear changes for the smoothest possible progress. By offering both A and M gear changing alternatives, Mercedes PowerShift gives everyone the widest possible control over their vehicle in any driving conditions.





Key benefits for fleet owners and fleet managers:

Optimized profitability based on lower operating costs.

Future-safe technology

Proven, reliable solution

Lower fuel consumption

Quick return on investment

Reduced wear and tear

Lower Total Cost of Ownership (TCO)

Key benefits for the driver:

Superior performance, safety and ease of operation.

Precise selection of gears
and shorter shift times

Rapid, smooth starts and
higher safety

Increased shifting comfort

Optimized performance and
driving dynamics

Minimized risk
of shifting errors

Higher level of
driving comfort



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