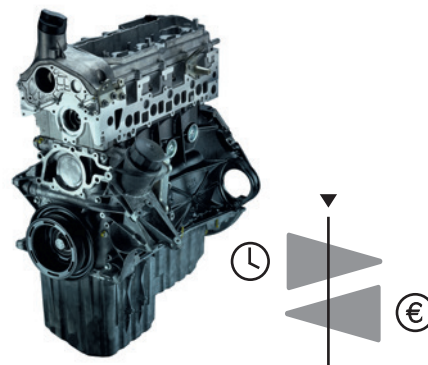


Long block engine – the flexible solution – optional with injector.



- Economical solution with an approx. 45% price advantage compared to the complete engine. High savings potential since detachable components that are still functional are reused.
- Including cylinder head and preassembled valves. They are delivered with or without injectors as requested.

At a glance

Package contents

- Injectors (optional)
- Piston
- Crankshaft
- Camshaft
- Oil pump
- Oil spray nozzles
- Oil pan
- Connecting rods
- Cylinder head with preassembled valves
- Cylinder crankcase
- Various small parts

Vehicle and engine model series

- Sprinter
- Only for selected variants of engine model series OM646, OM651
- Part numbers:
Without injector: A646 010 63 01 80, A651 010 43 26 80
With injector: A646 010 64 01 80, A651 010 44 26 80

Warranty

2-year warranty – may vary by country.

Please check the detailed information about product contents in VeDoc/EPC, or contact your Mercedes-Benz Partner. The pictures and product contents are shown as examples.

Advantages

Availability – rapidly back on the road

- **Drastically reduced downtimes** thanks to prompt availability.
- **Quick installation possible** because major valves are already pre-assembled in the cylinder head and because they are delivered in a special transport container.
- **Practical solution in case of more serious engine damage** such as crankshaft damage where the cylinder crankcase and cylinder head (possibly the injector) are damaged.

Cost advantage – replacement on a tight budget

- **Attractive offer for price-conscious customers** who need a remanufactured engine with a fully reconditioned cylinder head.
- **Less expensive than buying the short block** plus any required replacement parts separately.
- **Approx. 45% lower costs compared to replacing the entire engine** since all engine components and detachable parts that are still functional are reused.
- **Approx. 30% savings during the replacement compared to replacing the complete engine** for the option “long block engine with injectors”.

New parts or new part standards – fitness program for your engine

- **Excellent smooth running characteristics** since all rotating components are finely balanced corresponding to the current technical status of new parts, e.g., crankshaft and camshaft.

- **High reliability and durability** since all wear parts and small parts are replaced with Mercedes-Benz GenuineParts, e.g., seals, bearing shells and pistons. The result is:
- **Less friction on pistons and shafts** ensures optimum smooth running characteristics, efficient fuel consumption and engine leak tightness.

Cleaning and examination – carefully cleaned and tested

- **All functional surfaces are carefully cleaned with environmentally friendly cleaning agents.** This also reveals any hidden damage. Components that are especially difficult to clean such as the crankcase are cleaned in a multistage industrial process and checked for cleanliness. Advantage: Consequential damage from “bearing seizures” resulting from dirt is avoided. Performance and fuel consumption reach the level of a new engine.
- **Detection of micro-damage on highly stressed components** using a special crack test procedure with fluorescent magnetic powder. This ensures longevity of the repaired engine parts.
- **Highly sensitive test procedures in order to comply with production tolerances in the area of μ -meters.** While remanufacturing cylinder crankcases and crankshafts, the spherical shape of the piston ring on the main bearing and the connecting rod bearing must be between 2 and 4 μ m.
- **Legal emission levels and efficient fuel consumption:** The Genuine Remanufactured Engines are checked on high-tech company test stands with regard to output, torque, fuel consumption and compliance with statutory emission levels.