

Invented for life



BOSCH

Off-Highway Solutions from Bosch

Full Speed Ahead

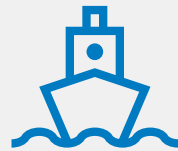


Driven by Sustainability

Bosch Off-Highway Components and Services

Thanks to robust and high-quality products and the development of customer-oriented solutions, Bosch is a reliable partner in the global market – and remains so throughout the entire lifecycle of off-highway engines and applications.

Our portfolio includes original parts, spare parts, as well as repair and remanufacturing solutions for the following areas of use:



Maritime



**Agriculture and
forestry**



Mining



**Construction &
material handling**



Railways



Power generation



Discover more at
boschoffhighway.com

Bosch Spare Parts, Diagnostic Equipment, and Services for Commercial Vehicles

Today's commercial vehicles face extreme demands when it comes to reliability and profitability. In view of this, Bosch offers workshops a comprehensive portfolio of highest-quality spare parts, diagnostic solutions, workshop equipment, and services. Workshops can rely on the certainty that all spare parts are designed and manufactured to assure outstanding interaction with other technical components.

Energy Management

Drive belts, batteries, starters, alternators

Compressed Air Systems

Filters, horns, fanfares

Steering Systems

Steering gearboxes, steering pumps, slave cylinders, add-on parts and accessories

Automotive Electrics

Electric motors, electric coolant pumps, solenoid valves, installation materials, switches, relays

Engine Management

Diesel injection systems, sensors, filters

Exhaust-Gas Treatment

Exhaust-gas sensors, Denoxtronic, Departronic, filters

Light & Sight

Automotive lamps, windscreen wipers

Diagnostics and Workshop Equipment

Services



Product Spotlight

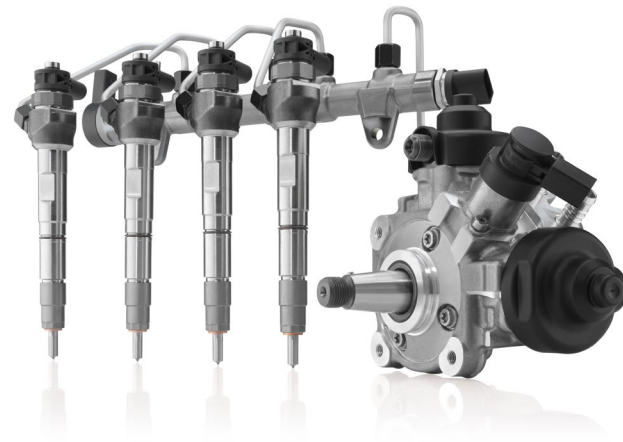
Bosch Spare Parts

Diesel Systems

Excellent power dynamics, low emissions, and minimal fuel consumption are only a few of the advantages to be mentioned when it comes to state-of-the-art diesel engines from Bosch or with Bosch components that are used, for instance, in boats and ships, agricultural machines, construction machines and mining vehicles, locomotives, and power generating systems.

Bosch is the leading manufacturer of components for diesel engines in the on-highway and off-highway segments and continuously sets new benchmark standards with its innovations.

Bosch offers a comprehensive portfolio of high-quality components and systems for diesel engines with power outputs of under and over 560 kW.



Did you know?

As a 100% subsidiary of Bosch, specialists Koller + Schwemmer from Nuremberg offer not only maintenance and repair services for existing pumps but also manufacturing of components deleted without alternatives from the catalogs of other manufacturers. These are manufactured on original Bosch equipment in accordance with the original manufacturer's specifications.



Discover more at www.koller.de



Spark Plugs

Regardless of whether spark plugs are required for vaporized or liquid fuels, for conventional or alternative concepts, or for mobile or stationary applications with natural gas or special gases, Bosch, the inventor of the spark plug, already has the ideal solution in its portfolio.

Even specially developed spark plugs for H₂ with M12 and M14 threads are available; on request, also as semi-finished products for spark plugs with an M18 thread for use in stationary gas engines.

Bosch eXchange – Value-Based Vehicle

Value-based repairs

Not only older vehicles can benefit from value-based vehicle repairs with high-quality exchange products from Bosch. The advantages at a glance:



High Quality and Reliability:

Bosch exchange products are checked according to the same standards as original parts and must pass stringent functional and quality tests.



Scan the QR-code for more information about Bosch eXchange.



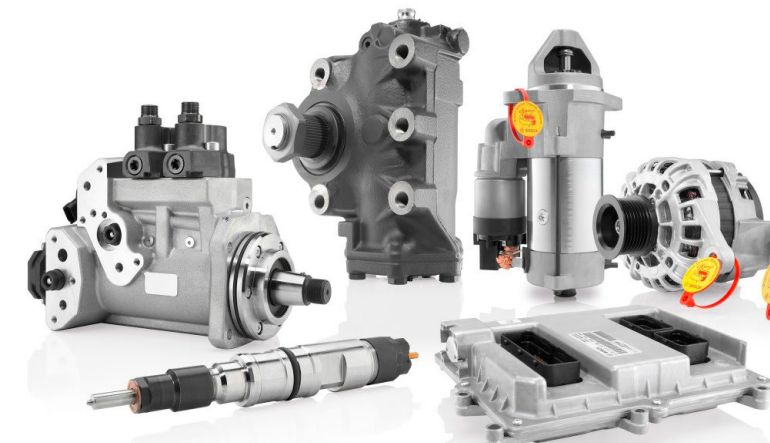
Outstanding Value for Money:

Up to 30% lower prices than for comparable products from the new parts portfolio and the same warranty terms.



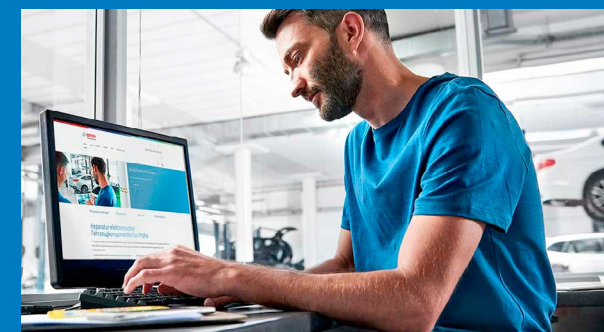
Resource-Saving and Environmentally-Friendly:

Bosch eXchange conserves valuable resources and makes an important contribution to the circular economy through the recycling of old parts.



Electronic Service – from Pros for Pros

As a global leader in the development and manufacturing of electronic vehicle systems in the automotive industry, Bosch offers automotive workshops a first-class exchange and repair service. In the Repair Center, highly qualified specialists repair electronic vehicle components from around the world. Their expertise and experience and the high performance equipment at every workstation enables Bosch to carry out top-quality repairs and typically deliver the repaired electronic component within an order processing time of 48 hours.



Discover more at bosch-repair-service.com

Product Spotlight

Bosch Original Parts

Parts according to manufacturers' specifications

Small Motors (DC)

In modern hybrid or electric vehicles, the demands on the functionality and efficiency of drive systems is particularly high. Bosch supports electromobility with innovative and cost-effective solutions such as the transmission actuator ECA-S2 developed especially for adjustment functions in the powertrain and chassis. The versatile actuator serves as a clutch and shift actuator that, despite its compact construction, delivers high torque and works particularly reliably even under harsh ambient conditions.



Wiper Drives

Bosch ensures a crystal-clear view both on and off the road with up to eight wiper motors running synchronously per cabin and a maximum wiping angle of 345°. They are available for both 12V and 24V on-board power systems, are IP 6K7 protection rated, enable LIN/CAN (2.0) and analog communication, and their speed, angle, and torque can be easily adapted to meet specific needs.



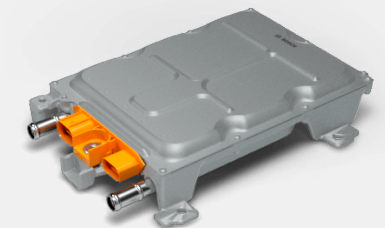
Wipers

Describing rain as bad weather is now a thing of the past. Wiper systems from Bosch guarantee a clear view of the way ahead in all situations. Bosch is the market-leader in both the manufacturing of original wiper equipment and wiper parts sales. Innovations contribute to a constant improvement of wiping quality, noise levels, and the overall weight of the wiper system.



DC/DC Converters

High-voltage DC/DC converters from Bosch assure an efficient supply of power to the vehicle's 12 V electrical system by transforming the power delivered by the high-voltage battery. Thanks to their low voltage ripple, they guarantee excellent electromagnetic compatibility (EMC) and, due to their multi-phase design, achieve efficiency levels of up to 95 %. Thanks to the reduced number of connecting elements, the converters are also particularly robust.



Thermal Management

Heat is generated wherever mechanical or electronic devices are used – in thermal cycles in vehicles, auxiliary heaters on trucks or boats, in charging stations, data centers, and industrial applications. Thermal management solutions from Bosch such as, for example, the PCE 2.0 L or XL coolant pumps, enable needs-oriented coolant flows and ensure ideal cooling – the prerequisite for efficient operation with lowest possible emissions and, above all, without damage.



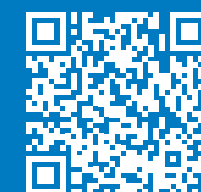
Sensors

You can't manage what you don't measure!. Angular position, rotational speed, temperature, electronic battery, knock, air mass, inertial, lambda, and pressure sensors deliver a wide range of information about physical phenomena in a variety of use-cases. Bosch offers sensors that have proven their capabilities in the measurement of almost all relevant parameters utilized in the automotive industry for many years.



Fuel Pumps

Bosch fuel pumps are compatible with a wide range of fuel types and ensure high efficiency, low current consumption, and low CO₂ emissions. Their extreme resistance to dirt minimizes the risk of clogging. They also offer flexible hydraulic connection options. Their outstanding cold-start performance assures reliability even at low temperatures, while their low operating noise levels maximize comfort in the working environment.



Scan the QR-code for more information about the Bosch Off-Highway product portfolio.

What drives you, drives us

Bosch technologies are used in most vehicles worldwide.
People, and assuring their mobility, is what we are focused on.

Therefore, we have dedicated over 130 years of pioneering spirit
and expertise in research and manufacturing to achieving this.

We provide the aftermarket and workshops worldwide with modern diagnostic and workshop
equipment and a wide range of spare parts for passenger cars and commercial vehicles:

- solutions for efficient vehicle repairs
- innovative workshop equipment and software
- one of the world's most comprehensive ranges of new and exchange parts
- large network of wholesale customers, for quick and reliable parts supply
- competent hotline support
- comprehensive educational and training offers
- targeted sales and marketing support

Find out more at:
boschaftermarket.com

Robert Bosch GmbH

Auf der Breit 4
76227 Karlsruhe
Germany