Bosch eXchange for diesel
Guaranteed, without compromise
Always a good substitute: Bosch eXchange
With all the quality of the original

Bosch expertise for workshops
Bosch is one of the world’s leading developers of diesel systems. Bosch’s major share of the original equipment market demonstrates the trust manufacturers place in the high quality of its products.

Unique know-how in production remanufacturing
Bosch is the only supplier of production-remanufactured exchange parts for diesel systems. Diesel injection systems are manufactured exclusively at a certified Bosch plant. The full breadth of Bosch expertise in development and production is applied to its production remanufacturing operations. Bosch eXchange is the unique exchange program offering an as-new guarantee on reconditioned parts.

Ever increasing demand for diesel injectors
The diesel market is growing, and there are increasing numbers of vehicles fitted with state-of-the-art fuel injection systems on our roads. The demand for diesel exchange components has been rising steadily for a number of years. That is particularly true of diesel injectors. It is an area of business in which workshops can profit with Bosch eXchange. No expensive capital investment in equipment and test systems for state-of-the-art diesel systems is required. Common Rail injectors can be easily and safely exchanged, with clearly calculated repair times. That assures workshops of healthy diesel business now and into the future.
Quick, safe exchange for successful workshop business

Drivers, especially those of older diesel vehicles are increasingly concerned that repair costs are proportionate to the residual value of their vehicle. They are looking for low-cost repair alternatives. Bosch eXchange is the solution which meets the highest standards and safeguards profitable workshop business: Cost-effective, efficient exchange of fuel injection systems – in Bosch quality.

No more turning away diesel customers
With the Bosch eXchange program all that has come to an end. It enables diesel vehicles with state-of-the-art injectors to be repaired in a targeted, efficient manner. With a full as-new parts guarantee up to 30% below the price of new components.

Clever exchange – easy and safe
Bosch eXchange is the readily available, comprehensive exchange program for state-of-the-art diesel injection systems. Ordering from your local wholesaler, fixed list prices and complete delivery, including the necessary seating-washer, ensure the exchange process is uncomplicated and safe.

The components – fully reconditioned at the Bosch factory – not only ensure optimum engine performance, they also generate sales for the workshop.

### Bosch eXchange: Benefits for workshops
- Original equipment quality for high mileage
- Comprehensive exchange program for state-of-the-art diesel injection systems
- Fast repair and short off road times
- Up to 30% price advantage
- Readily available from wholesalers
- 100% as-new guarantee
- Also approved for repairs within the warranty period

### Bosch eXchange: For satisfied customers
- Incorporating all the latest production improvements
- High levels of functional safety, reliability and durability
- Cost-effective, efficient repair
- Existing guarantees are retained
- All applicable emissions standards are met
- Environmentally friendly solution
Production remanufacturing from Bosch
All exchange programs are not the same

Factory remanufacturing process
1. Visual check of returned units
2. Clean returned units
3. Dismantle returned units
4. Clean components
5. Quality-check components to reconditioning standard
6. Assemble product
7. Test product, as in production

Production remanufacturing: Unbeatable benefits
- Know-how and experience from OE manufacturing
- Reconditioning process in line with latest OE specifications: Product improvements from production are incorporated.
- 100% exchange of all wearing parts and parts critical to safety and high mileage
- Assembly and function tests just as in production

Production remanufacturing in Bosch quality
Only Bosch eXchange offers the benefits of certified production remanufacturing. At the Bosch factory all wearing parts and critical components are replaced by original Bosch parts incorporating the latest production technology and the know-how gained from original equipment manufacturing. High quality standards and function testing as for new parts ultimately guarantee the production of an exchange article in top Bosch quality. With a 100% as-new guarantee!

For example: Common Rail injectors
The entire production remanufacturing process at the Bosch factory is certified in order to assure the highest standards of quality and safety. This is clearly demonstrated by the injector remanufacturing process, which follows steps specially approved by Product Development. It always incorporates the exchange of all wearing parts and critical components. Only when all tests have been successfully passed on the factory test rig are the injectors released for installation at workshops.

Exchange of all wearing parts
1. Valve ball with ball guide
2. Springs (valve, nozzles, armature)
3. Nozzle retaining nuts
4. Nozzle

Exchange of critical components
5. Valve assembly
6. Inlet connector
7. Injector body
Complete range for diesel systems
On the safe side with Bosch eXchange

Bosch eXchange is unique
With more than 1000 types for diesel injection systems, Bosch eXchange provides workshops with a unique exchange program. Unmatched in terms of quality and price.

<table>
<thead>
<tr>
<th>BX program</th>
<th>Application</th>
<th>System pressures up to</th>
<th>Fitted in following vehicle makes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Rail injector (CRI, CRIN)</td>
<td>Cars + CVs</td>
<td>1,800 bar</td>
<td>BMW, Citroen, Fiat, Isuzu, Ivec, MAN, Mercedes-Benz, Opel/Vauxhall, Peugeot, Renault, Volvo</td>
</tr>
<tr>
<td>High-pressure pump (CP1, CP3)</td>
<td>Cars</td>
<td>2,000 bar</td>
<td>BMW, Fiat, Mercedes-Benz, Opel/Vauxhall Peugeot, Renault, Volvo</td>
</tr>
<tr>
<td>Unit injector</td>
<td>Cars</td>
<td>2,200 bar</td>
<td>Audi, Ford, Seat, Skoda, VW</td>
</tr>
<tr>
<td>Unit injector</td>
<td>CVs</td>
<td>2,050 bar</td>
<td>Ivec, Scania, Volvo</td>
</tr>
<tr>
<td>Unit pump</td>
<td>CVs</td>
<td>1,800 bar</td>
<td>DAF, Deutz, Liebherr, Mack, Mercedes-Benz, MTU</td>
</tr>
<tr>
<td>Distributor injection pump</td>
<td>Cars + CVs</td>
<td></td>
<td>BMW, Fiat, Ford, Isuzu, Ivec, GM, Opel/Vauxhall, Peugeot, Renault</td>
</tr>
<tr>
<td>Nozzle holder assembly</td>
<td>Cars + CVs</td>
<td>1,800 bar</td>
<td>BMW, Citroen, Ford, MAN, Mercedes-Benz, Opel/Vauxhall, Renault, Scania, Volvo, VW, Volkswagen</td>
</tr>
<tr>
<td>Denoxtronic delivery module</td>
<td>CVs</td>
<td></td>
<td>DAF, Renault, Volvo</td>
</tr>
</tbody>
</table>

Exchange of piezo-controlled Common Rail injectors
The BX program meets these demands, too.

Remanufacturing at Bosch Bursa plant (Turkey)
In 2008 Bosch became the first company in Turkey to win Europe’s top quality award, the EFQM* Award, for the second time, after first triumphing in 2003.

*European Foundation for Quality Management
Quicker, easier repairs
Efficiency and success with Bosch eXchange

Bosch eXchange: A time saver for professionals
Bosch eXchange benefits workshops and their customers:
1. Easy, reliable diagnosis
2. Fast removal using standard tools
3. Exchange parts are rapidly available
4. Supplied as complete package
5. Ready to fit
6. Vehicle back on the road quickly
7. Uncomplicated return of old units

Back in Box – the uncomplicated return system
- Return old units safely in original Bosch eXchange packaging
- Fast processing and refund valuation
- Full refunding

Remanufacturing reduces CO₂ emissions
The serial remanufacturing of used vehicle technology products doesn’t just save materials and energy – it also helps Bosch to reduce pollutants. In comparison with the manufacture of new products, this process reduces CO₂ emissions by 23,000 tons per year.

Bosch helps the environment and helps keep down your costs
- Helps preserve the environment and conserve resources
- Almost 90% raw material saving thanks to re-use
- Almost 50% energy and CO₂ saving compared to new production

Common Rail pump – ready to fit

Diagnosis  Removal  Return (Back in Box)  Satisfied customers
More sales with diesel systems
Parts for the future with Bosch

More profitable diesel business, all from one source
More and more vehicles fitted with state-of-the-art diesel injection systems are coming into workshops. Bosch eXchange allows those workshops to carry out vehicle repairs in a cost-effective, efficient manner.

Bosch Service Training: The route to success
Practice-based training courses provide a successful introduction to diesel diagnosis. Experienced, certified trainers provide themed single-day courses.

The Hotline advisers all have a practical grounding
The Bosch Technical Hotline puts you in direct contact with experienced experts. Wherever problems occur in servicing or repairing vehicles, the Technical Hotline will save you time and money.

Bosch Injection Systems: More for diesel
For workshops looking to boost their diesel vehicle diagnostic and repair capabilities, the Bosch Injection Systems program is available from wholesalers: It provides a highly effective package comprising product information, test systems, ESI[tronic] workshop software, special tools, training courses and a Technical Hotline.

Bosch eXchange: For a big boost to your business!

- Profitably exploit a growth market in state-of-the-art diesel injection systems
- Successful entry into diesel diagnosis based on practical training
- Immediate and targeted help – saving time and money: the Technical Hotline
- Certified know-how from experienced experts
- Efficient, cost-effective repair

Bosch eXchange: Take advantage of the additional selling opportunities with diesel know-how from Bosch.
**Bosch**: Bringing you the workshop of the future

For over 125 years, Bosch innovations have been keeping vehicles on the road and getting people to and from their destinations while improving safety and peace of mind along the way.

Bosch Automotive Aftermarket offers workshops and retailers a comprehensive portfolio of products that is unmatched worldwide:

- Efficient diagnostics
- Innovative workshop equipment
- Quick, reliable delivery
- The world’s most comprehensive range of spare parts – including both new and remanufactured
- Workshop concepts to meet every requirement
- Comprehensive training
- Targeted sales and marketing support
- A competent service hotline
- 24-hour online workshop services
- Affordable leasing services for workshop equipment and software

From parts to scheduling, organization and results, our solutions are combined with additional services to ensure your needs will be perfectly met, helping you to maximize your potential.

**Workshop tip:**
With its expertise from original equipment, Bosch offers the workshop a holistic range of workshop test equipment, software, training and know-how. For a reliable service – today and in the future.

Your address for genuine Bosch quality:

For more information:
www.bosch.com