

# Quality makes the difference

Remanufactured Bosch eXchange starters and alternators – tested for performance and functionality according to original equipment standards

## Bosch high-quality exchange parts

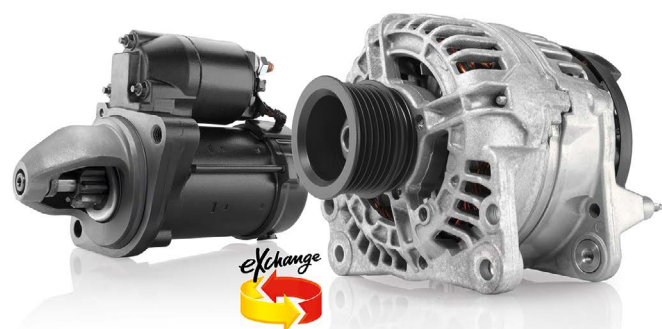
Not all exchange products are created equal. Certified plants and processes, as well as stringent testing and 60 years of experience, ensure proven Bosch quality at the same level as new parts production, even during series remanufacturing.

## Certified plants

The Bosch plants remanufacturing Bosch eXchange starters and alternators are audited in accordance with IATF 16949. That is, the complete industrial remanufacturing and release process is certified and performed in line with the stringent standards applied to original equipment.

## All product approval procedures in Bosch testing centers

Yet before their remanufacturing even begins, all products have to pass an approval process based on OE standards. This ensures their long service life, vibration resistance, robustness to environmental influences and tightness. As a result, only those products meeting the high quality demands of Bosch are included in the exchange program

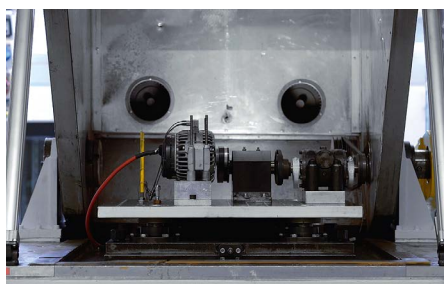


## Uncompromising quality

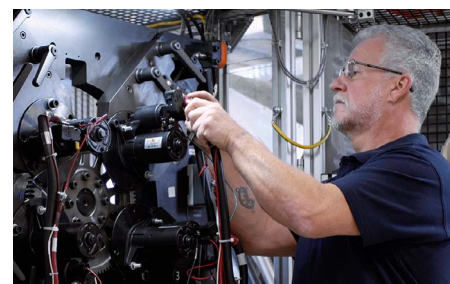
At the series remanufacturing all components and wearing parts are meticulously checked to make sure they precisely meet the permissible tolerances. If required, they are remanufactured or replaced by high-quality parts approved by Bosch. Finally, the performance and functionality of each and every remanufactured starter or alternator is tested in accordance with OE standards. Only those units which passed 100% of these tests are released and can leave the plant. This ensures the high quality and reliability of series-remanufactured Bosch eXchange products.



Tests to check functionality and performance according to manufacturer specifications



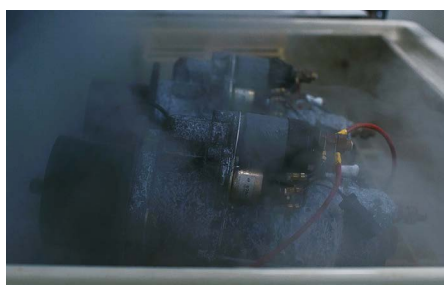
3D vibration test to prove the durability against shaking loads



Endurance test on a simulation test bench to prove durability



Splash water testing of tightness according to degrees of protection IPX4, IPX4K and IPX9K



Salt spray test to prove the effectiveness of the corrosion protection system



Cold storage, heat storage and changes in humidity to prove climate stability