



HEAVY FACTS

Genuine Volvo Parts

Batteries

Batteries play a very important role in the general functioning of the vehicle. With vehicles becoming well equipped with more applications, it is important to have a battery that can sustain long working hours.

Main functions:

- Operate the starter motor of the vehicle
- Provide buffer capacity for the electrical system when the vehicle is in operation and buffer capacity for the electric supply when the vehicle is parked

Technical description

Volvo vehicles require high capacity batteries to function efficiently. The Volvo HDX II and Super Heavy Duty Maintenance free batteries have microscopic porous cell separators. They come with top and bottom glued plate assemblies, wedge retained cell packages, a recyclable container and a polypropylene cover. These properties provide greater starting current, better charging capabilities, increased security against short-circuiting, extremely high resistance to vibrations and are environment-friendly.

Special alloys provide less discharge

The plates in Volvo HDX batteries are made from an alloy of Lead and Antimony which makes it possible to store them for 6 months before it needs a recharge. Volvo Super Heavy Duty Maintenance free batteries can be stored for upto 15 months without recharging, as it has an alloy of Lead and Calcium.

Extra resistance to vibrations

The lead plates in the batteries are fixed to each other with rods of glue and the cell assemblies are retained with wedges in all batteries made by Volvo. The HDX II and the Super Heavy Duty Maintenance Free batteries come with extra hot melted glue, on top and bottom. This further increases the durability and safety and is a unique feature in Volvo batteries. The batteries undergo extensive tests both in the rig as well as on the test tracks. **No leakages even in extreme weather conditions.**



FEATURES AND BENEFITS

- High cycle lifetime with thick plates – increased service life with few stops
- Unique active lead mass – short recharge time even in cold conditions
- Optimised plate design – strong cold start capacity
- Glued and secured plate assemblies – very high resistance to vibrations and ensures long service life
- 95% recyclable material – low environmental impact

Added features & advantages of Super Heavy Duty Maintenance-free battery

- Extremely low self-discharge which provides upto 15 months storage time – No maintenance needed
- No need to fill water – Higher uptime
- Double lid with optimised labyrinth eliminates the risk of leakage – Environment-friendly

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Technical description, contd.

The plastic container is well fabricated and crack resistant even in extreme weather conditions. The terminal run-throughs are uniquely constructed to eliminate the risk of leakage. The mono lid with improved basket plugs prevents further acid leakage in the HDX batteries.

The double lid on the sealed Super Heavy Duty Maintenance-free battery is designed with a central degassing and an optimised labyrinth to further eliminate the risk of leakage and acid burns.

Low water consumption

The special lead alloy in Volvo batteries consume very little water and minimize the need to check water levels. The heavy duty maintenance-free batteries do not require a water top-up at all. They consume 10 times lesser water than the HDX batteries and are recommended for operations in high temperatures and non long-haul vehicles.

The difference

Volvo develops batteries as per its own high standards and specifications to meet the demands for capacity, start output, reduced maintenance, vibration resistance and zero-leakage. The Volvo batteries ensure:

- Good startability (Even in freezing conditions)
- High capacity
- Long service life
- Good durability cycle
- Good charging acceptance
- Minimal or no maintenance

Using any other battery can seriously jeopardize the functionality of the electrical system. If a spurious battery is installed, there is a risk of short circuit from vibration or increased risk of sulphation.

This can result in:

- Difficulty in charging of the battery
- Incomplete or undercharging of battery
- Overheating due to high current and internal resistance

This in turn can cause warping of plates and short circuit leading to overheating and premature failure of the alternator as it will run at a continuous high power in an attempt to force charge into the battery.

Exchange parts

Batteries are not available as exchange parts

Service

To guarantee the highest quality of repair and long lifetime of the components, it is recommended to have the following skills, competence, tools and equipment.

- Access and ability to use Volvo Trucks Driver Handbook for instructions and specifications to ensure right repair in the shortest time.

To secure the best possible service, uptime and efficiency, fit the genuine Volvo parts at a Volvo workshop by certified technicians.

Recommended additional parts

To guarantee higher quality of repair and the longer lifetime of the component, it is recommended to also install the following:

- Volvo Battery Reconditioner – Enables the battery to operate at full capacity by removing and preventing sulphation. It extends battery life, reduces downtime and maximizes service life of the electrical equipment.
- Battery Indicator – Shows reliable data of battery status including voltage and current.

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