



UD TRUCKS



Going the Extra Mile

UD Genuine Parts - Alternator

GENUINE VS NON GENUINE

A Genuine UD alternator is a critical component of the electrical system for your truck. It continually recharges the battery while the engine is running, ensuring that it never loses power. The alternator also regulates the power going back into the battery, so it doesn't become overcharged.

Genuine alternators are developed to ensure reliability in every weather condition and application. The Alternator, along with the Starter and Battery are inter-dependent and specifically designed to work together to guarantee performance of your truck. This is why we only recommend using Genuine UD Parts.

When not choosing genuine parts, there is a chance that you risk damaging the vehicle which could lead to unnecessary repair bills. If the parts of the electrical systems operate incorrectly they can influence other components which could fail.

Non-Genuine Alternators could:

- ! Lead to undercharged batteries which could suffer loss of performance
- ! Result in rapid wear of the unit and battery power loss
- ! Mean poor power supply of electrical equipment

WHY CHOOSE A GENUINE UD ALTERNATOR?

- High Power – Able to supply high electrical demand, Optimal charging speed at all temperatures.
- Minimal maintenance required – only scheduled cleaning and refurbishment needed.
- Better Quality – Stable electrical power leads to increased battery life.



FREQUENTLY ASKED QUESTIONS?



Before I install a new alternator, what should I check?

1. Make sure the battery is fully charged.
2. Check all battery cables and connections.

Do Genuine UD Alternators deliver superior reliable performance?

Yes! They're specifically engineered to withstand excessive heat and high electrical demand. They are full-load tested to meet or exceed amperage and voltage output standards for proven starting and charging performance.

How can I be assured my Alternator will fit when installed?

Every Genuine UD Alternator is application specific. In other words, it is a perfect match with the unit being replaced.

Can I use my alternator to recharge a discharged battery?

No! When installing an alternator, the battery should be fully recharged before use.

Can I be assured that a Genuine UD Alternator will last, especially in extreme weather?

Yes! They are manufactured especially for extremes of heat, cold, and high demand. Each alternator is built using the highest quality materials and the most technologically advanced processes.

FEATURES & BENEFITS

FEATURES	BENEFITS
Long lasting bearings	○ Developed using the latest technology. Provides longer lifespan, increased safety and reliability over conventional bearings
Insulation	○ Ensures operation in extreme temperatures and harsh operating conditions
Coated Stator Windings	○ Provides increased resistance against corrosion, increasing durability
High specification of lubricating grease and bearings	○ Guarantees long service life and functionality in extreme conditions
Reinforced Shafts	○ Extremely dependable, as these shafts can withstand high engine torque through the belt
Correct Specification	○ For example, correct torque at the pulley mounting secures that the pulley will not loosen, which reduces the risk of expensive downtime

WHAT IS IT & HOW DOES IT WORK?

The alternator, which is driven by the engine, converts mechanical operation into electrical energy. The alternator is belt-driven and is fitted with a pulley on one end. The electrical energy generated is used to charge the batteries and to provide the various consumers in the vehicle with power.

The alternating current (AC) in the alternator is produced by a rotating magnetic field (rotor) inducing current in a stationary winding (stator).

A rectifier converts induced current to direct current which can be used by the trucks electrical system.

The alternator is enclosed in two housing halves which are known as bearing shields. Each shield contains a bearing in which the rotor is fitted. The forward bearing shield houses the driver bearing, while the trailing ring bearing is situated in the rear bearing shield. Also located in the rear bearing shield are rectifier diodes and a cooling plate. Carbon brushes and trailing rings conduct magnetized current to the rotor. Meanwhile, the charging current from the stator winding passes through the connection to the consumers and batteries. A pulley and cooling fan to drive and cool the alternator are fitted at one end.

When the engine starts and the rotor begins to turn, the rotor's magnetic field moves so that it passes through the stator windings. Alternating current is produced in the stator windings. As the accessories and other consumers of electrical power can only run on direct current, the alternating current in the stator must be rectified. This is done with the help of the rectifier diodes. The current then flows from the rectifier to the consumers and the battery.



MAINTENANCE AND PRACTICALITIES

- Deal with alternator issues as they arise – your other electrical functions may suffer.
- When changing an alternator, always check other components. Check alternator belts and the tensioner to ensure they are still performing at the required level.
- Belts should be properly adjusted during every maintenance check to prolong alternator bearing life.
- Genuine UD Parts come with warranty when fitted by UD trained technicians at UD Workshops.

We go the extra mile for you

UD Genuine Parts is specially designed and tested for UD Trucks which guarantee quality, value and productivity.



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