



UD TRUCKS

# UD Genuine Parts



Going the extra mile

# UD Genuine Parts

– specially designed and tested for UD Trucks

When you use UD Genuine Parts, you are adding value by purchasing parts of a guaranteed quality which increase the uptime and productivity of your vehicle throughout its life cycle. UD Genuine parts are specifically engineered and developed for UD Trucks and have undergone a process of rigorous testing to ensure the highest possible level of reliability and durability. With our global supply network, you can rely on the support you need to keep your business running. For any UD Genuine Part the promise from UD Trucks is that they:

- Meet UD Trucks specifications
- Deliver high reliability and durability
- Fit perfectly and work right the first time
- Ensure that your vehicle remains, as originally built, a UD Truck
- Part warranty
- Parts availability





# UD Genuine Parts

## Total peace of mind for your business

UD Trucks believes that there is a peace of mind that comes from using UD Genuine Parts. We offer a wide range of superior-quality UD Genuine Parts, each one backed by extensive testing and analysis, and provided through our global parts supply network.

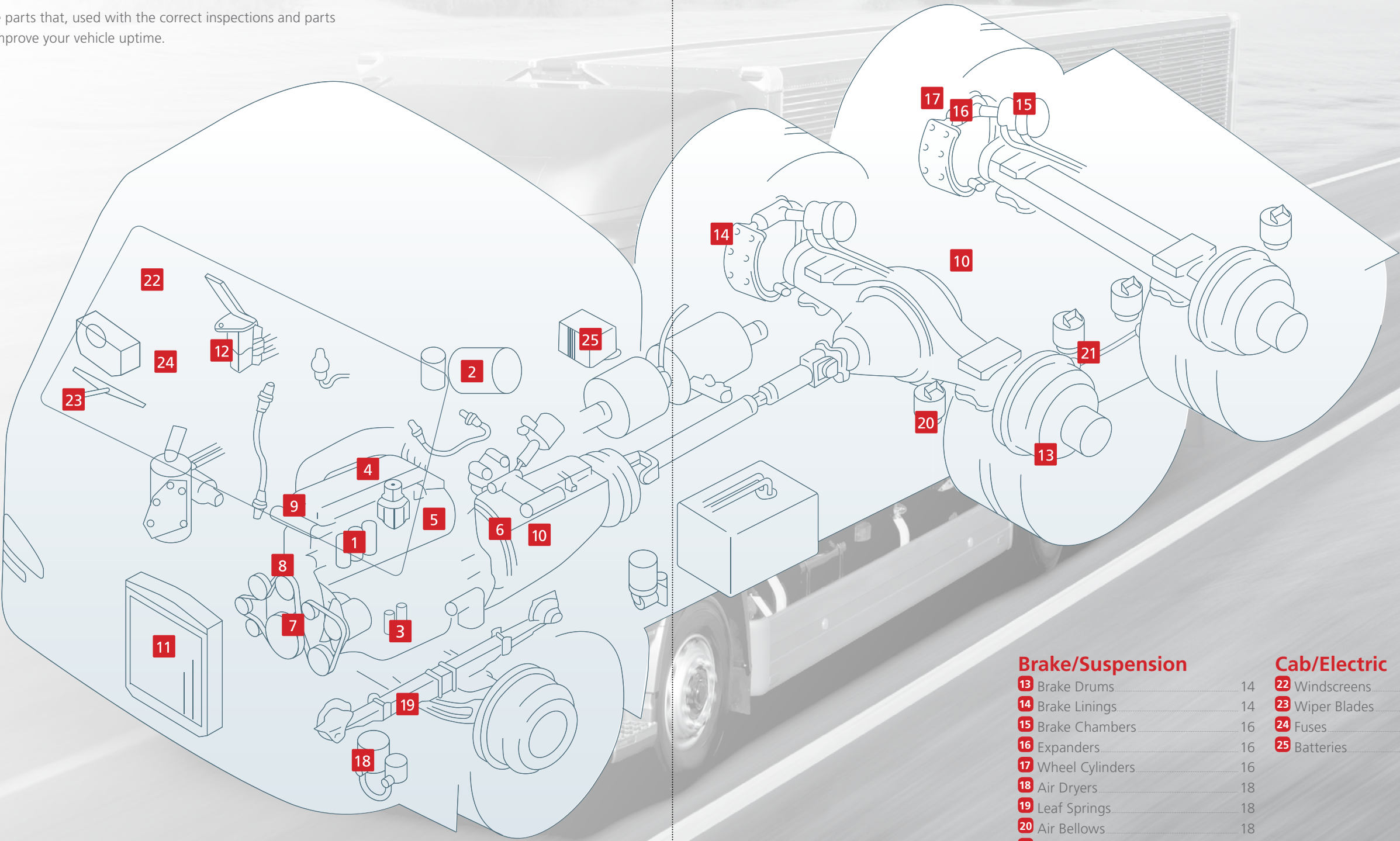
This booklet introduces the parts that, used with the correct inspections and parts replacement, will help to improve your vehicle uptime.

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# Engine/Drive line



## 1 UD Genuine Oil Filters

UD Genuine Oil Filters reduce engine wear and extend engine life, uptime and periods between maintenance. Perfectly matched to your vehicle, and using a superior-quality, fine-grain fibre to effectively remove engine oil impurities.

### Benefits:

- Stable filtering performance, from cold engine starts to periods of high load;
- Effective removal of impurities, reducing damage to the engine.

UD Genuine Oil Filters effectively clean engine oil and deliver both excellent filtering performance and the durability needed to withstand the sudden rises in pressure that occur during engine start. They use a filter paper made from special high quality fibres for superior filtering performance over long periods. This long service life is directly related to reduced engine deterioration.

Note: We recommend replacing the filter with every engine oil change.

## 2 UD Genuine Air Filters

An excellent air filter reduces internal engine damage and helps cut maintenance costs. UD Genuine Air Filters are specifically designed for your truck; providing excellent, efficient filtration and long service life.

### Benefits:

- High filtration performance prevents air intake and exhaust system wear;
- Durable, oil-resistant seals prevent dust leakage.

Dust drawn into an engine can accelerate the wear and deterioration of engine components such as pistons or piston rings. UD Genuine Air Filters use a paper made of special fibres that prevent clogging and promote efficient cleaning. The filters provide excellent prevention of internal engine wear and maintain optimal engine performance for a longer period.



## 3 UD Genuine Fuel Filters

Ensuring that impurities and moisture are removed from fuel, UD Genuine Fuel Filters have been designed with a special synthetic fibre-reinforced filter paper for superior, long-lasting filter performance.

### Benefits:

- Superior trapping of impurities to protect the fuel supply system;
- Effective removal of moisture from diesel fuel;
- Durable, oil-resistant rubber seals are used to prevent fuel leakage.

Modern, high performance, electronically controlled diesel engines require optimised combustion efficiency to realise both power and fuel efficiency and make use of carefully controlled electronic fuel injection systems. Fuel filters are used to prevent potential problems, protecting the engine by removing impurities or moisture in fuel, as well as any dust present in the air during the air-fuel mixing process.

UD Genuine Fuel Filters use synthetic fibre-reinforced filter paper to provide the strict filtering performance required by UD Trucks' high-performance diesel engines. The filters effectively and reliably trap impurities, while maintaining a smooth supply of fuel to the engine.





# Engine/Drive line

## 4 UD Genuine Cylinder Liner Kit

An accurate and speedy engine overhaul using the UD Genuine Cylinder Liner Kit, brings an engine back to near-original performance.

### Benefits:

- All parts required for cylinder liner replacement are included;
- Precise manufacturing of the cylinder liners and the use of highly-durable materials means performance close to the original engine's one.

The UD Genuine Cylinder Liner Kit contains a complete set of cylinder liners, pistons and piston rings. All parts have been designed and manufactured using materials to conform to UD's strict vehicle specifications.

Use UD Genuine Parts for an accurate, speedy engine overhaul.

## 5 UD Genuine Gasket Kits

UD Genuine Gasket Kits are specifically designed for UD Truck engine models, maintaining engine performance with tight sealing and high durability.

### Benefits:

- Kit contents are matched to specific engine models;
- Each kit contains all parts needed for reliable, trouble-free work.

Gaskets are installed between the mating surfaces of engine components to prevent the leakage of oil, water or high-pressure combustion gas, and must function even in the presence of high vibration and temperatures. UD Genuine Gaskets provide a tight seal and high durability. UD Genuine Gasket Kits contain all the gaskets required for accurate and speedy maintenance.



## The advantage of UD Genuine Parts

**UD Genuine Parts deliver a superior and long-lasting performance.**

UD Genuine Parts retain maximum performance over the entire lifecycle—a major contributor to vehicle uptime. Only high quality parts, carefully selected through a process of rigorous testing, are delivered to our customers under the UD Genuine Parts name.

Our consistent levels of quality will help keep your maintenance on schedule with designated maintenance intervals. UD Genuine Parts not only improve total lifecycle costs but help prevent unexpected vehicle malfunctions and maintain long-term performance—all of which improve the operating efficiency of your vehicle.



# Engine/Drive line



## 6 UD Genuine Clutches

The clutch is critical for torque transmission and drive system protection; UD Genuine Clutches have been designed for your truck and made of top-quality materials for reliable, long-life performance.

### Benefits:

- Constructed from high quality materials for excellent durability and heat resistant;
- Optimal damper spring strength to minimise noise and vibration;
- Designed specifically for vehicle type and engine power.

In addition to engaging and disengaging rotational power from the engine to the transmission, clutches play an important role in alleviating changes in engine speed or torque and protecting drive system components such as the transmission against shock.

UD Genuine Clutches are specially designed to suit specific vehicle types and engine power ratings. The clutch facings are manufactured using materials to match a vehicle's powertrain characteristics. This allows for a design with a larger friction plate surface area to transmit high levels of power and provide excellent temperature characteristics and superior fade resistance.



## 7 UD Genuine Fan Belts

Designed with the precise dimensions for your truck, tough, flexible UD Genuine Fan Belts can transfer high torque and provide cost effectiveness over a long service life.

### Benefits:

- Designed according to the optimum length and shape for each particular engine type;
- Superior flexibility for top torque transmission and excellent wear resistance.

Fan belts play an important role in transmitting engine torque to drive auxiliary equipment. UD Genuine Fan Belts are made from carefully-selected, high quality materials. The belt shape has been optimised to increase frictional force and to keep belt wear to a minimum, allowing for long service life.

## 8 UD Genuine Thermostats

UD Genuine Thermostats provide optimal engine temperature management, for highly reliable performance in all conditions.

### Benefits:

- Superior strength and durability;
- Shortened warm-up time contributes to fuel economy.

Thermostats are used in controlling the supply of coolant to the radiator and in maintaining appropriate engine temperature. UD Genuine Thermostats provide accuracy under all conditions from cold starts to driving under high loads because of the strong, durable valves, return springs and other components, and strict testing that simulate real driving conditions.





# Lubricants/Chemicals



## 9 UD Genuine Engine Oil

UD Genuine Engine Oil provides superior cooling and lubricating performance, as well as longer intervals between oil changes. The lubricant of an engine is an important, daily-check item: Rigorously tested and verified in UD engines.



### Benefits:

- Optimises engine conditions and reduces the risk of breakdowns;
- The use of multi-grade oil can contribute to better fuel efficiency;
- Reduced lifecycle cost through longer oil change cycles.\*

\*With the use of UD Genuine Oil Filters.

In addition to providing the cooling needed to protect against excess temperatures and the lubrication required for smooth engine operation, UD Genuine Engine oil is also useful for cleaning and sealing parts for rust prevention. It plays an essential role in providing and maintaining engine performance.

We created an engine oil that fulfils the requirements for the high-performance diesel engines used in UD Trucks. It is perfect for optimising engine condition and reducing the risk of breakdowns. The use of multi-grade oil can contribute to better fuel efficiency and guarantees an improvement in total engine performance.

## 10 UD Genuine Gear Oil

Your truck has to work in tough conditions: UD Genuine Gear Oil provides the superior protection and lubrication of gears needed for extreme environments, reducing gear wear and extending lifetime.



### Benefits:

- Reduces gear wear and extends the product lifetime;
- Contains extreme-pressure additives, effectively absorbs impact, and ensures thorough coating of all surfaces;
- Provides superior durability and foam-prevention properties, and maintains stable, high-level performance.

Power from the diesel engine is transmitted via the transmission to the wheels. Inside the transmission is a harsh environment in which the surfaces of the constantly rotating gears are exposed to high pressure, heat and shock as they mesh.

To assist proper gear movement, it is important to have a gear oil that forms a layer of lubrication on gear surfaces, which relieves pressure and shock, and can prevent wear and burn-out. UD Genuine Gear Oil contains extreme-pressure additives to endure high contact pressures. It has superior oxidation stability and the foam-resistance needed to thoroughly protect gears operating in a harsh environment.

# Lubricants/Chemicals



## 11 UD Genuine Long Life Coolant

UD Genuine Long Life Coolant prevents freezing and corrosion while providing excellent cooling performance and longer intervals between changes. Specifically formulated for the metals in your UD Truck's engine.

### Benefits:

- Long-lasting anti-corrosion protection for long operational life;
- Reduces damage to cooling system parts, cutting maintenance costs

Coolant is circulated within a truck's liquid-cooled engine to absorb heat, with the heat released by the radiator. Using pure water as a coolant can cause a variety of damage, including freezing ruptures, rusting and corrosion inside the engine. Long life coolants (LLCs) containing anti-freeze and anti-corrosion agents are used to avoid these problems. Correct concentration levels must be maintained.

UD Genuine Coolant is LLC-formulated specifically for the characteristics of the metals used in UD Trucks engines, providing stable, long-term cooling and protection from freezing and corrosion. A special blend of additives suppresses cavitation impact damage caused by the bursting of bubbles that occur during changes in coolant pressure, a major source of engine trouble. An anti-corrosion additive with excellent thermal and oxidative stability delivers a strong anti-corrosion effect over a longer period of time.

## 12 UD Genuine Brake Fluid

Reliable transmission of braking force, thanks to a carefully selected and tested fluid: UD Genuine Brake Fluid is ideally suited for use in UD vehicles.

### Benefits:

- Maintains a high boiling point over long periods of time;
- Specially formulated with ingredients to ensure the correct viscosity and to work well with rubber components

Brake fluid has the important job of reliably transmitting the force of the driver's foot on the brake pedal to the wheel cylinders and brake callipers. UD Genuine Brake Fluid has been tested and verified to maintain a high boiling point over extended usage periods.



## The Danger of Vapor Lock

### Brake fluid deterioration can be dangerous.

Due to the high water absorbency of brake fluid, small amounts of moisture are absorbed whenever the fluid is exposed to air in the reservoir tank. When brake fluid is used for extended periods of time, it may also absorb a small amount of sulphur from dissolved rubber parts.

When brake fluid start to contain these impurities, the boiling point will gradually be lowered, making the fluid more susceptible to boiling. When this happens, long periods of continuous braking may cause the brake fluid to boil and vaporise, causing a loss of pressure within the brake line known as vapour lock-and potential brake failure.





# Brake/Suspension

## 13 UD Genuine Brake Drums

UD Genuine Brake Drums provide exceptional braking force and high durability, guaranteeing safe driving by ensuring reliable stopping.

### Benefits:

- Made from metals with superior durability and energy absorption characteristics;
- High heat-dissipation performance increases service life and protects against brake fade.

Designed to work in harmony with existing equipment, UD Genuine Brake Drums have excellent durability and maintain a superior level of performance over a long service life. The advanced design ensures that uniform clearance is accurately maintained between the drum and brake lining, while superior heat dissipation minimises the risk of brake fade.

## 14 UD Genuine Brake Linings

Specially designed for specific UD vehicles and their intended uses, UD Genuine Brake Linings are reliable and durable, providing reliable operation even in the harshest of conditions.

### Benefits:

- Provide stable braking force over an extended lifecycle;
- Optimised drum wear and friction characteristics.

Truck brakes operate when the brake lining is pressed against the rapidly-rotating brake drum within the wheel. UD Genuine Brake Linings are specially designed for each UD Trucks model and work in harmony with UD Genuine Brake Drums. They deliver reliable stopping power and superior durability even under harsh operating conditions.



## The Importance of Periodic Replacement

Following specified replacement cycles is an important part of safe driving.

Many parts require periodic maintenance but it can be difficult to clearly determine the amount of deterioration of some parts simply by visual inspection. It is for that reason that some parts are designated as periodic replacement parts and should be replaced regularly in accordance with a maintenance schedule, which is determined by time or total distance travelled. For your safety, it is strongly recommend that you always follow the designated parts replacement schedule.

### Brake Chambers

Why replacement is necessary

Over time, diaphragms, seals, boots, elbows and other internal rubber parts will degrade, with increasing friction causing even further deterioration. Any foreign objects that work their way into the chamber can also cause brake chamber deterioration.

If it is not replaced...

Air leaks can cause malfunctions and brake drag. Brake drag can cause the drum to overheat which can be extremely dangerous. The brake chamber piggyback contains an extremely strong spring and disassembly can be dangerous.



### Expanders

Why replacement is necessary

Expanders incorporate parts including rubber boots, grease, and springs - parts that deteriorate over time. Wedges in particular have a high usage frequency and are subject to high levels of friction, which can cause deterioration.

If it is not replaced...

Deterioration of grease can lead to internal expander wear or rust. If the part is not replaced on schedule, smooth operation of the automatic gap adjustment or wedge mechanisms can be hindered leading in some cases to the brakes pulling to one side, brake dragging or inadequate braking force.



### Air Dryers

Why replacement is necessary

Oil impurities in the air from air compressors and other sources can collect on the surface of the drying agent, reducing drying performance. The drying agent is also used up over time, as friction wears it into a powder that is gradually discharged.

If it is not replaced...

If the drying agent deteriorates and no longer provides sufficient drying performance, water can build up inside the air tank or air system, leading to rust inside the air pipes. This rust can flake off and become lodged inside parts such as the brake valves, which may lead to air leaks or other malfunctions.





# Brake/Suspension

## 15 UD Genuine Brake Chambers

When replacing this key component of your brake system, choose UD Genuine Brake Chambers-designed and built specifically for your truck from superior materials, for safe, trouble-free driving.

### Benefits:

- High output level eliminates worries about braking force;
- Superior reliability helps avoid unexpected trouble on the road.

The high reliability of UD Genuine Brake Chambers ensures safe driving and avoids unexpected trouble on the road. Brake chambers are essential parts in the reliable transfer of braking force to the brakes. Designed specifically for your UD vehicle and built using the highest quality materials, UD Genuine Brake Chambers consistently deliver high output performance. Their superior reliability helps prevent braking system trouble.



## 16 UD Genuine Expanders

With designs optimised and tailored to each UD Truck model, UD Genuine Expanders deliver worry-free braking performance.

### Benefits:

- Stable performance and long service life;
- Optimised designs tailored to each vehicle model deliver worry-free braking performance.

Expanders are part of the wedge brake system. Full air brakes, which consists of the traditional S-cam mechanism, is replaced with a simple wedge mechanism. UD Genuine Expanders are specially designed to suit each particular vehicle model, delivering superior braking performance over a long service life.



## 17 UD Genuine Wheel Cylinders

With excellent compatibility with other UD Genuine products and superior reliability, UD Genuine Wheel Cylinders provide solid braking performance over long periods of time.

### Benefits:

- Stable braking performance is maintained over long periods of time;
- Excellent fit with other brake-system parts, preventing brake malfunctions.

Wheel cylinders are most often installed in vehicles equipped with AOH (air-over-hydraulic) brakes. For optimal performance, UD Genuine Wheel Cylinders have been designed to meet the special characteristics of the brake system.



## Parts Distribution Network

### The right parts for your UD Truck, there when you need them

Our investment in and commitment to parts availability is second to none. UD Genuine Parts are distributed to markets by UD Trucks Southern Africa's regional dealer network. You get the UD Genuine Parts you need, created specifically to work with the existing parts on your vehicle, when you need them.

We help you to keep your wheels turning. The UD Trucks parts distribution network is your guarantee of UD Genuine Parts availability. It's a service that extends to emergency parts ordering, constantly updated parts supply, and the provision of information and catalogues on the latest UD parts for your vehicle.



### 18 UD Genuine Air Dryers

UD Genuine Air Dryers prevent trouble and ensure smooth operation by removing moisture and oil impurities from compressed air. Designed, tested, verified and built specifically for your UD truck.

#### Benefits:

- Superior drying performance, reducing the degradation of pneumatic components;
- High drying capacity means long service life.

UD Genuine Air Dryers, built, tested and verified for UD vehicles, contain drying agents that efficiently collect the oil impurities and moisture present in compressed air, preventing the damage that these can cause. Realise the excellent cost performance of your air dryer by using tested and verified UD Genuine Drying Agent replacement kits.



### 19 UD Genuine Leaf Springs

UD Genuine Leaf Springs provide superior driving stability and minimised cargo damage.

#### Benefits:

- Constructed from special, extra-tough steel, surface-treated and coated for added durability;
- Specially designed for comfortable driving and minimal damage to cargo.

UD Genuine Leaf Springs are specifically designed for each vehicle model, for optimal performance in all applications. Although other leaf springs may look more or less the same, they do not offer the level of performance-ease of operation, durability, and cargo protection that only UD Genuine Leaf Springs can provide.



### 20 UD Genuine Air Bellows

Make sure your vehicle's suspension is protecting your customers' precious cargo, by using the UD Genuine Air Bellows built just for your truck and the way you use it.

#### Benefits:

- Key part of a suspension system providing both safety and handling stability;
- Provide stable performance, regardless of the external environment

Filled with compressed air, air bellows are used to support the vehicle. UD Genuine Air Bellows have been optimally designed to suit specific models and uses, achieving a high level of driving stability, comfort, and safety regardless of operating conditions including temperature.



### 21 UD Genuine Torque Rod Bushings

Constructed using high-quality materials guaranteeing durability and drivability. A special rubber blend ensures long service life.

#### Benefits:

- Durable, providing reliable performance even in harsh conditions;
- Provides smooth rotation by preventing foreign matter from entering the rods..

Torque rod bushings are installed at both ends of the torque rods to absorb vibrations transmitted from the axle. Because torque rod bushings in large trucks are constantly exposed to vibrations from the road surface, the quality of the bushings greatly influences driving comfort and handling stability. UD Genuine Torque Rod Bushings enable smooth operations and withstand high loads.



## The Value of Genuine Service

UD Genuine Service helps keep our customers' vehicle in top condition and provides a major contribution to transport business efficiency. UD Trucks' goal is to provide the kind of service that gives customers with true peace of mind.

To achieve this, we are constantly working to improve the technical skills of our maintenance teams. Our technicians apply the advanced knowledge we provide at authorised training workshops as they perform vehicle fault diagnoses using UD-original electronic control diagnostic units. They then undertake the correct maintenance procedures, using specialised tools and UD Genuine Parts.

To ensure that our customers' transport businesses operate at the highest levels of efficiency, and to continue to build our own abilities, UD Trucks service is focused on maintaining the original level of product performance to the highest degree possible, not on simply fixing something when it breaks.



# Cab/Electric

## 22 UD Genuine Windscreens

UD Genuine Windscreens are crystal-clear and provide a distortion-free field of vision, essential for safe driving.

### Benefits:

- Laminated glass construction strictly conforms to all safety standards;
- Designed for a perfect fit for your vehicle.

The windscreen has a major influence on the driver's field of view. UD Genuine Windscreens are specially designed to fit UD vehicles and provide a distortion-free, clear field of view. Shard-free laminated glass protects the driver in case of an accident.



## 23 UD Genuine Wiper Blades

Clear vision and long service life are musts for wiper blades; UD Genuine Wiper Blades are therefore the perfect fit with UD Genuine Windscreens to ensure safe driving even in the worst weather.

### Benefits:

- Perfectly fit the curve of UD vehicle windscreens and give the best possible view to the driver;
- Superior resistance against heat, ultraviolet rays, vibration and friction;
- Able to operate in a wide range of weather conditions including rain and snow.

In rainy weather, clear vision is impossible without wiper blades that have excellent windscreen contact and wiping performance. UD Genuine Wiper Blades are designed to perfectly fit the curve of UD vehicle windscreens, with the wide wiping coverage to ensure the driver has the best possible view.



## 24 UD Genuine Fuses

The accurate performance of UD Genuine Fuses means total protection of the electrical system parts essential for vehicle control.

### Benefits:

- Designed to blow reliably when voltages exceed rated values, protecting circuitry and other electrical components;
- Prevent damage to the electrical system, and confine problems to a single area

Modern motor vehicles contain increasingly complex, diverse electronic control systems. Fuses are used to protect these electric circuits from excess current. UD Genuine Fuses blow reliably when voltages exceed rated values, helping to prevent major trouble in the vehicle's electrical system.







# Cab/Electric

## 25 UD Genuine Batteries

Built strong for the environment in which your truck operates, UD Genuine Batteries provide reliable power, long service life and major cost savings.

### Benefits:

- Optimally designed to suit the operating environment and truck charge/discharge cycles;
- Long service life reduces maintenance costs.

Batteries are vital for engine ignition and the supply of reliable power to electric control systems. UD Genuine Batteries are optimised for performance in trucks, where repeated deep charging and discharging is common. They provide reliable operation, even under such harsh conditions as engine start-up in cold weather conditions. Their durable construction using superior-quality materials resists leakage, helping to guarantee long battery life.



## Other UD Genuine Parts

UD Trucks' goal is to help our customers achieve this improved uptime, by providing an expansive parts line-up and network.



Alternator



Clutch Cover



Turbocharger



Unit Injector



Shock Absorber



Head Lamp



Starter Motor




Steering Gearbox



Air Compressor



A scenic landscape featuring a winding asphalt road on a hillside. A green truck is driving on the road. The hillside is covered in dry, yellowish-brown grass and some dark shrubs. In the foreground, there is a field of tall, dry grass. A dead, gnarled tree stands on the right side of the road. The background shows more hills under a blue sky with scattered white clouds.

# Going THE Extra Mile





**UD TRUCKS**

**UD Trucks Southern African Region**



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