

## Comprehensive service and support

When your engine needs service, our professional technicians have the training and tools to get you back to work quickly. We provide off-the-shelf component availability backed by the Caterpillar worldwide parts network.

Give us a call or drop by our parts counter. We'll show you how we can help lower your costs with the highest quality engine components, a wide range of Exchange parts (including Cat Reman components), and the most comprehensive service and support available.

For more information, see us today or visit Caterpillar's web site at <http://www.CAT.com>.

## Starters and Alternators



Our full line of new and remanufactured Cat Starters and Alternators helps you increase engine life and lower costs.

### *Built to meet your engine's demands and lower your costs through remanufacturing*

Starters crank your engine to starting RPM while alternators supply electrical power to operate electrical attachments and/or accessories.

New and remanufactured Cat® Starters and Alternators are built to work together to meet the demands of your specific engine and operating environment. 100% quality testing ensures maximum durability and engine starting ability which ultimately lowers your owning and operating costs.

# Starters and Alternators

## New Cat Starters and Alternators deliver power and reliability

Caterpillar® Starters and Alternators are engineered as part of a balanced electrical system. Computer-aided design, stress simulation, environmental validation, and 100% testing help ensure Cat Starters and Alternators work in unison with the rest of your Caterpillar engine components.

### Starters

Caterpillar Starters are designed specifically to handle the high current experienced during the cranking of Cat engines. They are built to work hard and deliver reliable performance even in tough, dirty environments. We carry a variety of Cat Starters, matching the torque required with your specific engine.

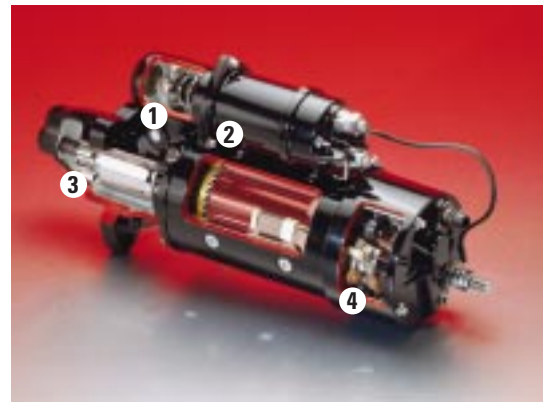
#### Caterpillar Starters with the PRELUB® system

Caterpillar Starters with the PRELUB® system help to prevent the wear caused by dry starts. This innovative starter combines an oil pump with the body of a conventional starter. The pump automatically draws engine oil from the sump and pressurizes the engine before allowing the starter to crank the engine. Caterpillar Starters with the PRELUB® system can be easily retrofitted to your machine.

PRELUB® is a registered trademark of RPM Industries.

### Alternators

Cat Alternators are divided into two categories: brush type and brushless. Brush type alternators use one-piece brushes and constant pressure springs for even brush wear. Brushless design alternators feature tighter air gap tolerances and superior sealing for longer life in dusty, dirty environments. Both Cat Alternators are superior high-output charging systems that are quiet, compact, and lightweight.



#### Caterpillar Starters

- ❶ **Positive-engagement shift mechanism** ensures precise pinion-to-ring gear engagement.
- ❷ **Seamless one-piece solenoid case** protects against corrosion.
- ❸ **Rotatable drive housing** allows flexible mounting.
- ❹ **Brush holder** provides constant spring pressure for even wear.



#### Caterpillar Alternators

- ❶ **Built-in electronic voltage regulators**
- ❷ **High-efficiency cooling system**
- ❸ **Brushless design** for harsh environments

## Cat Reman Starters and Alternators reduce downtime and costs

When you need repairs, Cat Reman Starters and Alternators get you back to work quickly, reliably, and affordably. Completely remanufactured to include the latest engineering updates, Cat Reman Starters and Alternators provide same-as-new performance and long life.

### Strict remanufacturing processes

- Components are stripped down to the piece parts.
- New O-rings, seals, bushings, and bearings are installed.
- Rewound coils are sealed with new insulation.
- Heat sink compounds are replaced.
- All components that cannot be remanufactured to Caterpillar specifications are replaced with new parts.
- Each part is checked individually, and the finished product is performance-tested to ensure it meets like-new specifications.

### Coverage and availability

Cat Reman Starters and Alternators are available off-the-shelf for nearly all Cat engine applications. Coverage includes Cat Reman starters with the PRELUB® system, as well as a wide amperage range of alternators (up to 145 amps).

### Fully warranted, low-cost repair options

Cat Reman Starters and Alternators are priced at 40-50% of the cost of new parts and provide same-as-new performance and long life. To prove it, Caterpillar backs Reman Starters and Alternators with a same-as-new parts warranty.



**Our simple core acceptance criteria allow a quick determination of core credit. We visually inspect the core on the spot, providing an immediate decision on core condition and credit, so you don't have to wait for—or guess about—repair costs.**