



Cat[®] 311B • 312B

Your Working Advantage

CATERPILLAR[®]

More Efficient

Power

You don't get paid for downtime. That's why the new Cat 311B and 312B Excavators are built with rugged durability and versatility – so you get the highest return on your equipment investment. These machines have what it takes to make you a top contender in today's competitive construction industry.

With advanced hydraulics, a turbocharged Cat 3064T engine, and increased working force, the 311B and 312B machines are powerful and reliable. And with more versatility than ever before, the 311B and 312B give you a working advantage you can count on.

Specifications

	311B	312B
Power	79 HP (59 kW)	84 HP (63 kW)
Operating Weight up to	27,680 lb (12 560 kg)	31,110 lb (14 110 kg)
Maximum Reach at Ground Level	26'7" (8100 mm)	28'4" (8625 mm)
Maximum Digging Depth	18'4" (5600 mm)	19'10" (6050 mm)

Superior Performance

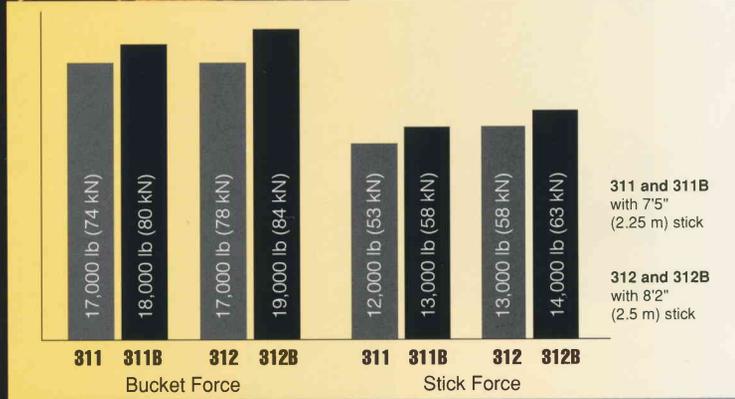
Advances in the hydraulic system make 311B and 312B Excavators more powerful and give you higher levels of precision and efficiency. Increased hydraulic force gives B-series excavators even more digging force and lift than the 311 and 312, allowing them to perform more aggressively when excavating, trenching, and loading. Compared to their predecessors, the 311B and 312B deliver:

- 9% more stick force and more bucket force.
- Up to 10% more over-the-front lift capacity.
- Smoother changes in speed and a greater sense of control.
- Shorter cycle times and smoothness during simultaneous implement operation.





More power with greater control means you can get more done in less time.



Improved hydraulics means smoother movement and better control.



Standard auxiliary hydraulic valve makes switching between different attachments fast and easy.



New optional blade makes the machine perfect for carrying, clearing, backfilling, and grading.





Even More

Versatility

Versatility is critical to high productivity. The 311B and 312B Excavators keep busy during an entire shift. Here's how:

- **An optional blade attachment** greatly expands your ability to handle cleanup, clearing, backfilling, grading, and other utility functions.
- **A long undercarriage option** provides extra stability for increased over-the-front lift capacity, especially in soft underfoot conditions.
- **A combined one-way, two-way hydraulic tool option** allows quicker, easier switching between attachments.
- **An optional 20-hour fuel tank** carries 43% more fuel to help extend time dedicated to the job.

Electronic Power Control

At the center of the 311B and 312B is the Caterpillar Electronic Power Control or EPC, which controls the hydraulics and engine performance. These enhancements in the EPC controls allow the machines to run even more efficiently:

- **An Automatic Engine Control** automatically reduces engine speed to lower sound and fuel consumption.
- **A pre-start monitoring system** signals the operator when the coolant, engine oil, or hydraulic oil levels are low.
- **A memory function**, at start-up, recalls the power and work mode settings in use before shutdown.

Two Power Modes

- **Power Up Mode** delivers up to 100% available engine power for loading and trenching.
- **Economy Mode** provides up to 90% of available engine power for normal truck loading and trenching, pipe setting, and general utility work.

Four Work Modes

- **User Mode** increases efficiency when working with special attachments and can be programmed to meet your needs.
- **Boom Priority** is ideal when increased boom speed or simultaneous swing are required.
- **Swing Priority** is useful when a large swing radius is needed – for 180° truck loading, trenching, or level finishing work.
- **Fine Control** is designed for lifting, site and slope finishing, and pipe laying – jobs that require fine control while maintaining force and lift capacities.

More Time

On the Job

Cab Upgrades

To stay efficient throughout the day, your work environment needs to feel right. The Cat 311B and 312B Excavators feature cabs that are roomier, quieter, and more comfortable – so you maintain peak performance all shift long.

Feel the Difference

- **New travel pedal shape** makes travel easier during fine control work.
- **Integrated seat and console** slide independently or as a unit for optimum comfort.
- **Viscous cab mounts** minimize vibration and sound.
- **Air ventilation unit**, fitted with a changeable filter, circulates fresh air within the cab.
- **Optional air conditioning**, with climate control, keeps cab comfortable all day long.

See the Difference

- **Pillar-mounted wiper** keeps out of sight when not in use, maximizing operator viewing area.
- **Large windows and optional skylight** provide light, greater viewing area, and excellent ventilation.
- **High-contrast display panel** is easy to read – even in direct sunlight; large color display provides machine conditions at a glance.

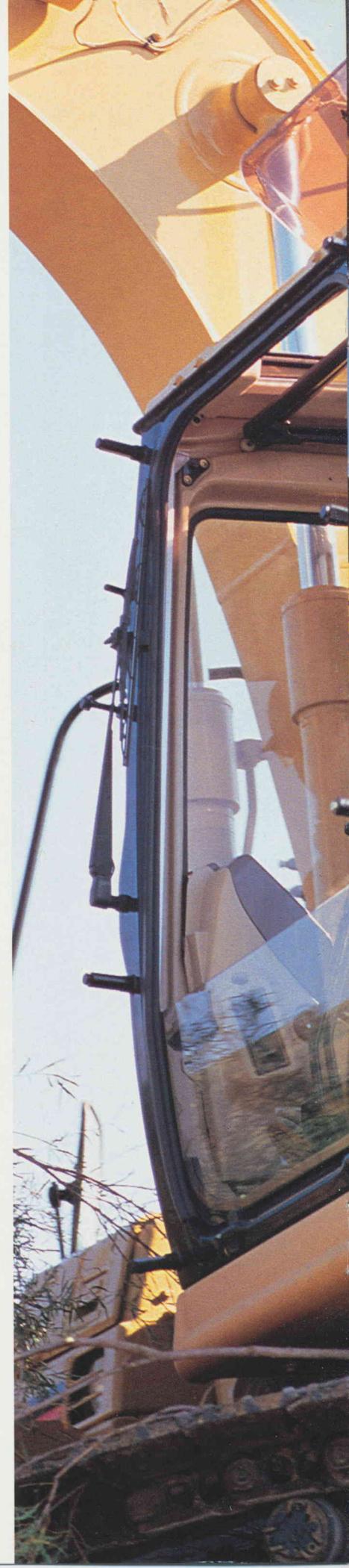
Easy Maintenance Features

The 311B and 312B design provides fast service and easy maintenance, which gives you more time on the job.

- **Most daily maintenance** can be performed at ground level through easy-access side doors.
- **Central lubrication bank** for the boom and stick cylinders is located on the boom.
- **Hydraulic oil cartridge filter** makes changes faster and cleaner.
- **Sampling port** on the hydraulic oil filter housing makes sample collection faster and cleaner.
- **Top plate of the track roller** frame has a steeper, smoother slope – for faster mud and dirt removal from the undercarriage.



Hydraulic oil cartridge filter is located outside the hydraulic tank, making filter changes fast and clean.





Enhanced cab interior makes operators more productive by providing more room and greater comfort.



A standard Cat Radial Seal Air Filter requires no tools – for fast removal or installation.



Total Dealer

Support

Designed to the highest quality standards, the 311B and 312B Excavators have the power and performance to give you the working advantage. And you get something no one else offers – Caterpillar's Total Dealer Support. We're committed to keeping your operation productive and profitable. Our outstanding service support:

- Provides parts when and where you need them – anywhere in the world.
- Maximizes uptime with expert service both in the field and in the shop.
- Develops finance and rental options tailored to your particular needs.



The 311B and 312B are constructed with commitment to quality and backed by the excellent service you expect from Caterpillar. Together they give you the working advantage you can count on.

The Caterpillar worldwide network is dedicated to getting you the parts and service you need to keep your working advantage.

CATERPILLAR®