



312B 312B L

Hydraulic Excavator

CAT[®]

Operating weight up to:

312B	13 890 kg	30,620 lb
312B L	14 110 kg	31,110 lb
Travel Speed (maximum)	5.5 km/h	3.4 mph
Cat[®] 3064T Diesel Engine (Gross)	68 kW	91 hp
(Flywheel power)	63 kW	84 hp

312B Hydraulic Excavator

Improved performance and rugged durability combine to maximize productivity.

Operator Station

- ✓ *Roomy, quiet, automatically climate controlled cab has excellent sightlines to the work area to help keep operator fatigue low and production up throughout the entire shift. **pg. 4-5***

Improved performance.
Better controllability, higher stick and bucket forces, increased lift capacity, simplified service and a more comfortable operator station increase your productivity and lower your operating costs.

Serviceability

Simplified service through many ground level service points, improved filtration and filter access, and electronic diagnostics means increased productivity. **pg. 6**

Electronic Control System

Maximizes fuel efficiency and performance by maintaining the optimum balance between engine speed and hydraulic demand. **pg. 7**



Hydraulics

✓ *New higher pressure Caterpillar® hydraulics provide increased break-out and crowd forces to maximize bucket loads and decrease cycle times. The Cat Electronic Power Control system allows smooth, efficient operation. **pg. 8***

Engine

The 312B is powered by the Cat 3064T engine. This engine includes several design features which enhance performance, efficiency and reliability. **pg. 9**

Undercarriage and Blade

Cat designed excavator undercarriage is stable, durable and low maintenance. ✓ *New smoother track roller frames are easier to clean. A new blade option adds versatility. **pg. 10***

Booms and Sticks

Two sticks are available to meet your needs. A selection of buckets helps tailor the machine to your application. **pg. 11**

Structures

Caterpillar design and manufacturing techniques assure outstanding durability and service life from these important components. **pg. 11**



✓ *New feature*

Operator Station

Designed for comfort and ease of operation.





This operator work station is quiet with ergonomic control placement and convenient adjustments, low lever and pedal effort, ergonomic seat design, and highly efficient ventilation. The result is a cab that puts the operator firmly and comfortably in control which can translate into greater productivity.

Excellent viewing area through large, wide windows. An optional large push-open skylight provides upward visibility. The upper front windshield features a pillar mounted wiper to provide unobstructed front viewing. The upper left side door window can slide open. The lower window provides a view to the tracks and the ground next to the machine. The rear window offers a good view behind and to the left, aided by a low engine hood profile.

Greater control convenience. Each of the controls is positioned within easy reach of the operator.

The double wall, pressed cab shell is mounted to the swing frame using viscous mounts for reduced sound and vibrations.

1 Caterpillar Electronic Control System panel includes fuel level, hydraulic oil temperature and engine coolant temperature gauges, machine condition indicators and operator controls in a single console for ease of use (refer to Electronic Control System on page 7).

2 Ventilation system. At the touch of a switch, the operator can choose between fresh, recirculated or (optional) air conditioning.

3 Joysticks control all implements and swing functions with minimal effort. The integrated joystick consoles adjust to operator preference. Joystick consoles are suspended as part of the seat arrangement.

4 Dial throttle with ten settings for simple, precise engine speed adjustment.

5 Hand or foot actuated travel controls allow the operator to move the excavator while working the front-end. Hand levers are easily removable.

6 Hydraulic activation control lever deactivates hydraulic functions and prevents start-up when the operator exits the cab.

7 The fully adjustable standard suspension seat includes an impressive range of comfort features. It has fore/aft height and weight adjustments and a retractable seat belt.

Serviceability

Simplified service and maintenance features save time and money.

Faster, easier maintenance means improved uptime and a better value.

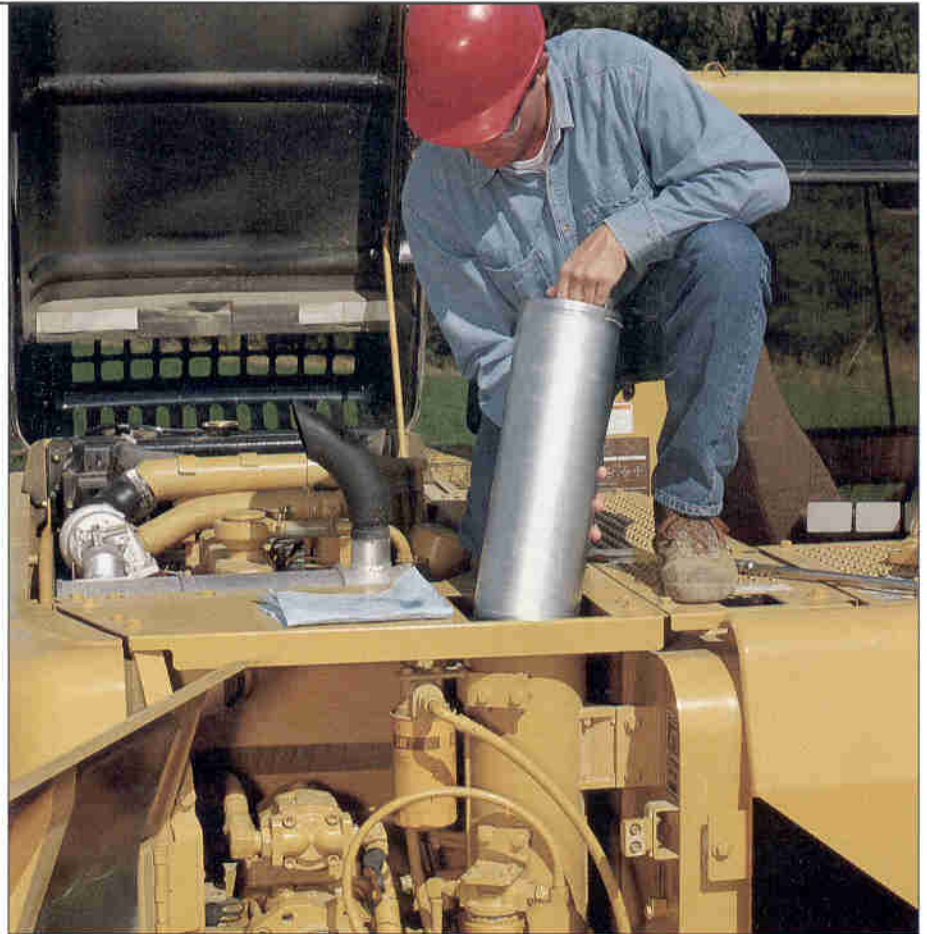
More ground level service points for fuel-water separator, battery, radiator fluid level, window washer fluid level and pilot system filter.

Improved filters and filter locations makes maintenance easier.

- Hydraulic capsule filter moved to outside hydraulic tank. New design avoids spills and contamination during replacement. Indicator in cab signals when the filter needs to be replaced, extending filter service life. This system includes a Scheduled Oil Sampling port to simplify sampling.
- Radial seal air cleaner has double layered filter core for better filtration. No tools required to change. Operator is alerted to clogs.
- Engine oil filter is located higher in the engine compartment for easier access.
- Pilot hydraulic system filter keeps contaminants away from the pilot system.

Design and layout improvements translate to ease of use.

- Front linkage pin puller holes promote easier disassembly of front linkage.
- Cotter pin retained track master pin simplifies disassembly and assembly.



Water separator removes water from fuel even when under pressure and is located in the pump compartment.

Remote greasing block on the boom and two grease points for the swing bearing deliver grease to hard to reach locations.

Electronic Power Unit Control has diagnostic capabilities for Cat dealer's use.

- Dealer service technicians can quickly and easily diagnose and adjust machine components, maximizing uptime.

Electronic Control System

The Electronic Control System manages the engine and hydraulics for maximum performance.

Electronic Power Unit Control System controls state-of-the-art hydraulics and engine performance for maximized productivity, increased fuel efficiency, and lower emission and sound levels.

Automatic Engine Speed Control reduces engine speed to 1300 rpm during light-load or no-load applications. Button on right control lever engages low idle function reducing engine speed to 1100 rpm. Press again to return to previous setting.

Electronic Engine Underspeed Control balances engine and hydraulic output for maximum performance and fuel efficiency.

- It adjusts hydraulic pump output to maintain engine rpm in optimum range.
- 100 percent of engine power is available for the hydraulic system.

Operator control panel allows optimization of performance in all applications. The high contrast back-lit liquid crystal display includes:

- 1 Power Mode Selector** changes engine power and speed at the touch of a button.
- **Economy Mode** sets engine power at 90 percent and is used during normal and utility operations to reduce fuel consumption and sound levels.
 - **Power Up Mode** sets engine power at 100 percent for high production truck loading, trenching, and high-speed travel.

Work Mode Selector matches hydraulic characteristics to the application.

- 2 Boom Priority Mode** gives priority flow to the boom for deep trenching and truck loading, where there is significant boom movement relative to swing.



- 3 Swing Priority Mode** gives swing flow priority and is especially suited to sidewall digging.

- 4 Fine Control Mode** optimizes hydraulic pump output for applications like slope finishing or precision lifting which require smoother control.

- 5 User Mode** allows the operator to choose from three submodes:

- **Tamping Mode** adjusts boom speed and force to keep machine motion at a minimum when compacting material with the bucket.
- **Hammer Mode** allows pump flow and hydraulic pressure adjustments to enhance hammer effectiveness.
- **Customer Mode** allows a customized combination of a work mode, power mode, and hydraulic output to be selected, recorded, and recalled for later use.

Machine monitoring system uses a progression of indicators, action lamps, and alarms to inform the operator of machine conditions.

Service Mode of the Electronic Power Unit Control delivers fast, detailed diagnosis of machine conditions improving uptime (refer to Serviceability).

Hydraulics

Caterpillar hydraulics deliver power and control to keep material moving at high volume.



Dramatically increased control responsiveness aids operation and improves cycle time.

- Control movements better matched to hydraulic action for improved operator performance.
- Improved swing damping restrains drift and improves positioning during finishing and lifting applications.

Nine percent increase in hydraulic relief pressure increases stick and bucket forces for better productivity, nine percent higher lift capacity (at lifting points limited by hydraulic pressure) and a wider range of workable material.

Hydraulic cross-sensing system improves productivity with faster implement speeds and quicker, stronger pivot turns.

- 100 percent of engine horsepower deliverable as hydraulic power.
- Full power to a single motor for strong, fast turns. Balanced power to two pumps for straight travel.

Boom regeneration circuit diverts oil to lower the boom. Pumps have all pressure and flow available for other circuits.

Stick regeneration circuit diverts oil to assist stick-in operation. Flow from the pumps can be directed to other circuits, saving energy.

Pump flow decreases when controls are in neutral for reduced fuel consumption and sound.

Auxiliary hydraulic valve is standard on the 312B for use with optional hydraulic circuits.

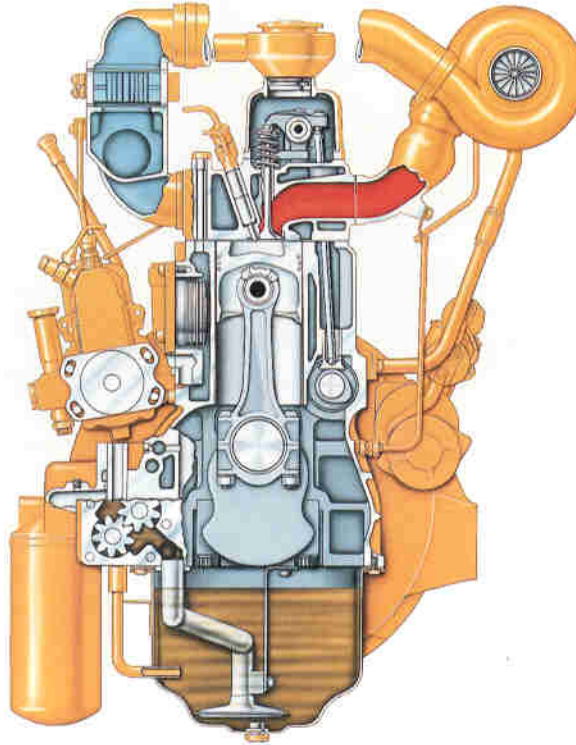
Hydraulic cylinder snubbers at rod-end of boom cylinders and both ends of stick cylinders cushion shocks, reduce sound and increase cylinder life.

Cat's XT hose meets the critical flexibility and strength demands of the 312B.

- O-ring face seal couplings provide positive sealing for reliable, leak-free connections.

Cat 3064T Engine

The four cylinder turbo-charged engine is built for power, reliability, economy and low emissions.



Automatic Engine Control with convenient one-touch command (refer to page 7). Three-stage control maximizes fuel efficiency and reduces sound levels.

- When placed in the "OFF" mode, if a no-load condition or light-load condition continues more than three seconds, the automatic engine control reduces engine speed by 100 rpm.
- When placed in the "ON" mode, if a no-load condition or light-load condition continues more than three seconds, the automatic engine control reduces engine speed from high idle to 1300 rpm.
- At any time, the operator can activate a switch on the top of the right control lever to reduce the engine speed to 1100 rpm. This feature, referred to as one-touch idle, can be used both to conserve fuel and to reduce engine sound levels. Activate switch again to return to previous level.

Efficient, direct injection fuel system means lower operating costs.

Turbo-charged to increase engine power by burning fuel with greater efficiency.

Eight balance, one-piece, forged crankshaft enhances balance and decreases vibration and is induction hardened to improve abrasion resistance.

Heat resistant aluminum alloy pistons have a short compression height, reducing weight and improving efficiency.

Forged, high carbon steel connecting rods with smaller connecting rod to crank radius ratio results in a lightweight, powerful, compact engine.

The lubricating tube inside the engine has been replaced with integrated cast oil passages.

Air intake heating is standard on the 312B for easier cold starts. When coolant temperature is above 10° C (50° F) the air intake heater does not operate, below that temperature the length of the heating period automatically adjusts to the temperature.

Undercarriage and Blade

Durable undercarriage absorbs stresses and provides excellent stability.



Precision robotic welding helps ensure quality welds. These welds increase rigidity, reduce internal stresses and enhance durability for the chassis and track roller frames.

Heavy-duty, X-shaped chassis design.

Cat undercarriage components are purposely oversized to offer heavy-duty performance and durability.

Strutted track links are sealed for longer life. Track rollers, carrier rollers and idlers are also sealed and lubricated for excellent service life.

Smoother auto shifting two-speed travel motors offer top travel speeds and plenty of pull on slopes or turns.

Two undercarriage choices:

Standard (STD) undercarriage is well suited for applications that require frequent repositioning of the machine, have restricted working space, or have uneven or rocky terrain.

Long (L) undercarriage maximizes stability and lifting capacity. Long and sturdy undercarriage offers a very stable work platform.

The elimination of the ledge at carbody and roller frame juncture reduces material build-up and makes digging out easier.

Standard idler guards maintain track alignment. Optional center section guards (standard on the 312B L) are available for additional protection on side slopes.

1 Optional blade increases versatility.

- Helps level a working space so the 312B sits firmly and digs vertically.
- Dozes and backfills trenches. Blade even has a float position for ease of use, smooth results.
- Speeds site cleanup - objects can be trapped against the blade for easier bucket loading.
- With the blade down, lift capacity over the front is increased (see lift charts in the specifications section).



Booms and Sticks

The 312B has designed-in flexibility to help bring higher versatility and efficiency to your jobs.

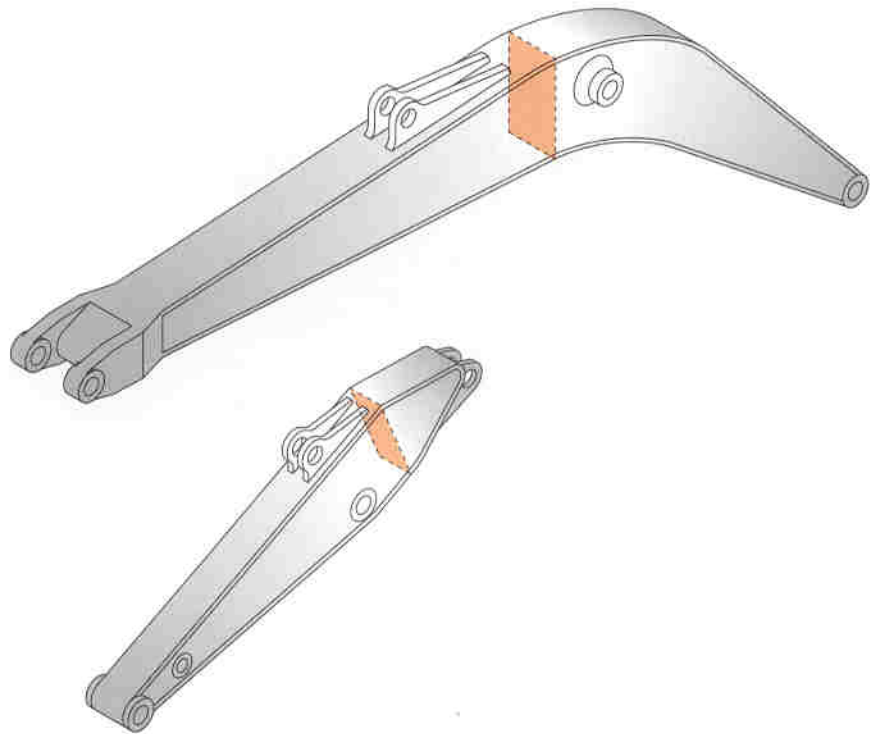
Select the right combination for the job with your Cat dealer and you'll help ensure top production from the start.

Caterpillar excavator booms and sticks are built for performance and long service life.

- Large, welded, box-section structures with thick, multi-plate fabrications in high-stress areas.
- Construction allows structures to flex and dissipate stresses.

The choice of two sticks plus a wide selection of buckets and attachments, means the 312B offers several combinations of reach and digging forces for optimum versatility.

Choose from a variety of work tools such as hammers, compactors, grapples or crushers. Ask your Cat dealer for information on attachments or special configurations.



Structures

The 312B structural components are the backbone of the machine's durability.

Advanced carbody design stands up in the toughest applications.

- Modified X-shaped, box-section carbody provides excellent resistance to torsional bending.
- Upper structure weight and stresses are distributed evenly across the full length of the track roller frame.
- Smooth transitions and long welds reduce stresses at the carbody-to-roller frame junctions for excellent durability.
- Robot welding ensures consistent, high-quality welds throughout the manufacturing process.

Robot-welded track roller frames are press-formed, pentagonal units that deliver exceptional strength and service life.

Rugged main frame is designed for maximum durability and efficient use of materials.

- Outer frame utilizes curved side rails, which are die-formed, for excellent uniformity and strength throughout the length.
- Box section channels improve upper frame rigidity under the cab.
- Inverted U-channels span the width of the main frame and are formed, rather than fabricated, for superior strength and reduced weight.

- Boom tower and main rails are constructed of solid, high-tensile strength steel plates.
- Boom foot and engine mount areas reinforced for additional strength.
- Sheet metal supporting structure is improved by integrating the mounting into upper frame structure.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.



Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. To help you get the best return on your investment, the dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement.

Selection. Make detailed comparisons of the machines you are considering before you buy. What are the job requirements? What production is needed? What is the true cost of lost production? Your Cat dealer can give you precise answers to these questions.

Purchase. Look past initial price. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has training videotapes, literature and other ideas to help you increase productivity.

Maintenance. What is the cost of preventive maintenance? More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help you avoid unscheduled repairs.

Replacement. Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

Product support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured components. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent.

Engine

Caterpillar 3064T turbo-charged diesel engine.

Ratings at 1900 rpm*	kW	hp
Gross power	68	91
Net power	63	84

The following ratings apply at 1900 rpm when tested under the specified standard conditions for the specified standard:

Net power	kW	hp
Caterpillar	63	84
ISO 9249	63	84
SAE J1349	62	83
EEC 80/1269	63	84

Dimensions

Bore	102 mm	4.02 in
Stroke	130 mm	5.12 in
Displacement	4.25 liters	259 in ³

Hydraulic System

Two variable displacement, axial-piston pumps power the boom, stick, swing, bucket, auxiliary and travel circuits. One single-section, gear-type pump powers the pilot circuit.

Main Implement System

Maximum flow	2 x 120 liters/min (2 x 32 gpm)
Maximum pressure	
Implements	29 900 kPa (4340 psi)
Travel	34 300 kPa (4980 psi)
Swing	23 050 kPa (3340 psi)

Pilot System

Maximum flow	18 liters/min (4.8 gpm)
Maximum pressure	3900 kPa (570 psi)

Cylinders, Bore and Stroke

Boom (2)	110 x 1015 mm (4.3" x 40")
Stick (1)	120 x 1197 mm (4.8" x 47")
Bucket (1)	100 x 939 mm (4.0" x 37.5")

Features

- main hydraulic pumps are electronically controlled and dependent on engine speed
- power modes match hydraulic output to application severity
- XT hose

*Power rating conditions

- based on standard air conditions of 25°C (77°F) and 99 kPa (29.32 in Hg) dry barometer
- used 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30°C (86°F) [ref. a fuel density of 838.9 g/L (7.001 lb/ U.S. gal)]
- net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator
- no engine derating required below 2300m (7,550 ft) altitude

Features

- fuel injectors control fuel delivery more efficiently, resulting in better performance, fuel economy, and reduced noise and smoke
- 24-volt electric system with 50-amp alternator and two 100-amp/hr batteries
- low profile, heat-resistant, aluminum alloy pistons
- high carbon, steel forged connecting rods
- precision cast cylinder head with helical intake ports
- one-piece, induction hardened forged alloy crankshaft

Drive

Drive system is fully hydrostatic.

Ratings

Maximum drawbar pull	104 kN	(22,930 lb)
Maximum travel speed	5.5 km/h	(3.4 mph)

Features

- each track is driven by one independent, automatic shifting, two-speed axial piston motor via integral planetary final drives
- each drive module is well integrated into the roller frame for total protection

Brakes

Meets the following standards:
SAE J1026 APR90

Service and parking brake features

- wet, multiple-disc brakes are used on the final drive input shafts
- spring-applied, hydraulically released
- actuating a travel control simultaneously releases the brakes
- when the controls are released, the brakes automatically apply

Buckets

Buckets have tapered sides, angled corner teeth, dual radius curvature, horizontal wear strips, and holes for optional side cutters.

Width		Capacity		Recommended Maximum Material Density			
				Medium Stick		Long Stick	
mm	in	m ³	yd ³	kg/m ³	lbs/yd ³	kg/m ³	lbs/yd ³
625	24	0.35	0.46	1800	3000	1800	3000
775	30	0.46	0.60	1800	3000	1800	3000
925	36	0.57	0.75	1800	3000	1500	2500
1075	42	0.67	0.88	1500	2500	1200	2000
1225	48	0.78	1.02	1500	2500	1200	2000

Material Densities

Material	kg/m ^{3*}	lb/yd ^{3**}	Material	kg/m ^{3*}	lb/yd ^{3**}
Clay, dry	1500	2500	Gravel, pit run	1930	3250
Clay, wet	1660	2800	Rock/dirt, 50%	1720	2900
Earth, dry	1510	2550	Sand, dry	1425	2400
Earth, wet	1600	2700	Sand, wet	1700	2850
Loam	1250	2100	Sand & Clay	1600	2700
Gravel, dry	1510	2550	Stone, crushed	1600	2700
Gravel, wet	2000	3400	Top soil	950	1600

* kilograms per loose cubic meter

** pounds per loose cubic yard

For densities of other materials see Caterpillar Performance Handbook

Steering

Two rocker pedals with detachable hand levers control steering and travel functions.

Controls

- controls are pilot-operated for reduced efforts
- left pedal and lever control left track; right pedal and lever control right track
- when idlers are in front, pushing both pedals or levers forward moves the excavator straight ahead
- when the idlers are in front, rocking both pedals or pulling both levers backward moves the excavator straight back
- moving one pedal or lever more than the other, either forward or backward, results in a gradual turn
- moving one pedal or lever forward and the other pedal or lever backward counter-rotates the tracks for spot turns

Undercarriage

Caterpillar designed and built track-type undercarriage.

Track width	Ground Pressure	
	312B	312B L
500 mm (20") triple grouser	39 kPa (5.66 psi)	38 kPa (5.51 psi)
600 mm (24") triple grouser	33 kPa (4.79 psi)	38 kPa (5.51 psi)
700 mm (28") triple grouser	29 kPa (4.21 psi)	28 kPa (4.06 psi)
770 mm (30") triple grouser	26 kPa (3.77 psi)	26 kPa (3.77 psi)

Implement Controls

Two joystick hand levers actuate boom, stick, bucket and swing (SAE pattern).

Boom/Bucket Controls (right joystick)

- move forward and backward to lower and raise boom
- move left and right to control bucket curl and dump
- button on top is one-touch low idle

Stick/Swing Controls (left joystick)

- move forward and backward to move stick out and in
- move left and right to control direction of swing
- button on top controls horn

Other Features

- oblique movement of either lever operates two functions simultaneously
- manually applied lever on left console cuts off pilot pressure for joysticks and travel controls and electrical power for engine starting circuit

Service Refill Capacities

	L	Gallons
Fuel Tank	250	66
Cooling System	15.5	4.1
Engine Oil	13.0	3.4
Swing Drive	2.8	0.74
Final Drive (each)	2.5	0.66
Hydraulic system (including tank)	162	42.8
Hydraulic tank	98	25.9

Swing Mechanism

Hydrostatic with independent planetary reduction.

Ratings

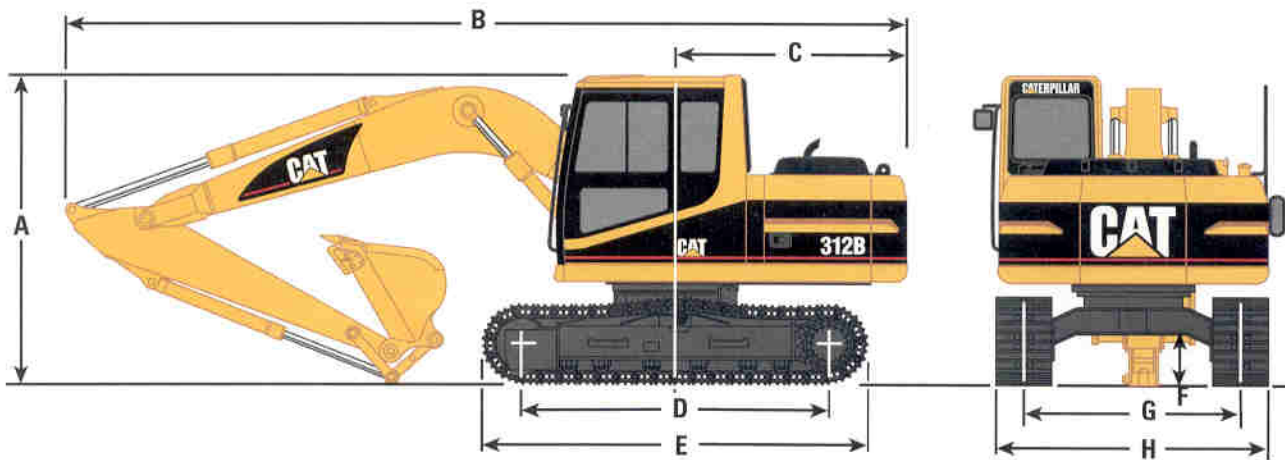
Swing Torque	30.4 kN·m (22,422 lb ft)
Swing Speed	12.0 rpm

Features

- the swing mechanism is driven by a pinion gear sealed in a grease bath through a double-reduction planetary gear set.

Dimensions

All dimensions are approximate.



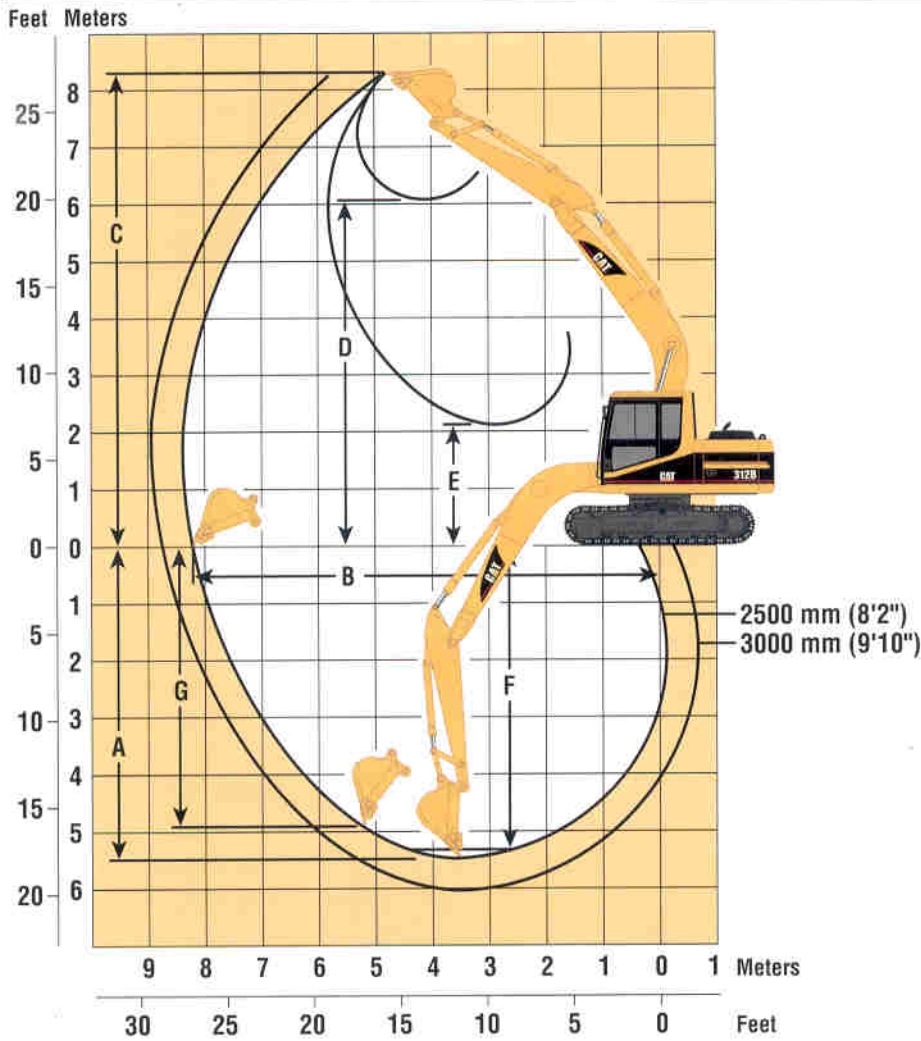
		2500 mm (8'2") Stick	3000 mm (9'10") Stick
Boom 4.3 m (14'1")			
A Shipping height		2760 mm (9'1")	2760 mm (9'1")
B Shipping length		7595 mm (24'11")	7610 mm (25'0")
C Tail swing radius		2130 mm (7')	2130 mm (7')
D Length to centers of rollers			
	312B	2780 mm (9'1")	2780 mm (9'1")
	312B L	3040 mm (10'0")	3040 mm (10'0")
E Track length			
	312B	3490 mm (11'5")	3490 mm (11'5")
	312B L	3750 mm (12'4")	3750 mm (12'4")
F Ground clearance		440 mm (1'5")	440 mm (1'5")
G Track gauge		1990 mm (6'6")	1990 mm (6'6")
H Transport width			
	with 500 mm (20") 2490 mm (8'2")	with 600 mm (24") 2590 mm (8'6")	with 700 mm (28") 2690 mm (8'10")
			with 770 mm (30") 2760 mm (9'1")

Machine Weights

Caterpillar designed and built track-type undercarriage.

Track width		Machine Weight (medium stick)		Machine Weight (long stick)	
312B	500 mm (20") triple grouser	12 435 kg	(27,410 lb)	12 510 kg	(27,580 lb)
	600 mm (24") triple grouser	12 660 kg	(27,910 lb)	12 735 kg	(28,080 lb)
	700 mm (28") triple grouser	12 900 kg	(28,435 lb)	12 975 kg	(28,605 lb)
	770 mm (30") triple grouser	13 030 kg	(28,725 lb)	13 105 kg	(28,895 lb)
	Blade: add	780 kg	(1720 lb)		
312B L	500 mm (20") triple grouser	12 705 kg	(28,010 lb)	12 780 kg	(28,170 lb)
	600 mm (24") triple grouser	12 935 kg	(28,520 lb)	13 010 kg	(28,680 lb)
	700 mm (28") triple grouser	13 120 kg	(28,925 lb)	13 195 kg	(29,085 lb)
	770 mm (30") triple grouser	13 250 kg	(29,215 lb)	13 325 kg	(29,375 lb)
	Blade: add	785 kg	(1730 lb)		

Working Ranges



Stick Length	3000 mm (9'10") Stick*	2500 mm (8'2") Stick**
A Maximum Digging Depth	6050 mm (19'10")	5550 mm (18'3")
B Maximum Reach at Ground Level	8625 mm (28'4")	8175 mm (26'10")
C Maximum Cutting Height	8695 mm (28'6")	8475 mm (27'10")
D Maximum Loading Height	6330 mm (20'9")	6095 mm (20'0")
E Minimum Loading Height	1520 mm (5'0")	2010 mm (6'7")
F Maximum Depth Cut for 2440 mm (8') Level Bottom	5865 mm (19'3")	5340 mm (17'6")
G Maximum Vertical Wall Digging Depth	5345 mm (17'6")	4970 mm (16'4")
Stick Digging Force (SAE)	57 kN (13,000 lb)	63 kN (14,000 lb)
Bucket Digging Force (SAE)	84 kN (19,000 lb)	84 kN (19,000 lb)

* - Measurements shown are for machines equipped with the 0.46 m³ (0.60 yd³) bucket

** - Measurements shown are for machines equipped with the 0.57 m³ (0.75 yd³) bucket

Standard Equipment

Standard and optional equipment may vary. Consult your Caterpillar dealer for specifics.

Alternator, 50-amp	Metal roof hatch	Power train
Automatic engine speed control	Positive filtered ventilation	CAT 3064T Diesel engine with 24-volt electric starting and air intake heater
Automatic swing parking brake	Seat, suspension, fully adjustable	
Auxiliary hydraulic valve	Seat belt, retractable	
Cab	Storage compartment suitable for a lunch box cooler	Undercarriage
Ash tray with cigar lighter	Travel control pedals	Hydraulic track adjusters
Coat hook	Two-speed auto shift travel	Track-type sealed undercarriage
Drink holder	Windshield wiper and washer	Idler section track guiding guards
Floor mat	Counterweight, 2450 kg (5400 lb)	312B 500 mm (20") triple grouser shoes
Heater and defroster	Door locks and caps locks with Caterpillar one-key security system	312B L 600 mm (24") triple grouser shoes and center section track guiding guards
Horn	Hydraulic neutralizer lever for all controls	Work Mode Selector
Instrument panel with gauges	Light, working, frame mounted, one	
Gauges and indicator lights for fuel level, coolant temperature and hydraulic oil temperature	Mirrors, frame and cab	
Joysticks, adjustable pilot-operated	Muffler	
Light, interior	Pre-start monitoring system	
Literature compartment	Power Mode Selector	
Low fuel indicator light		

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

Air conditioner, with automatic climate control	Guards:	Rain protection, cab front
Alarm, travel (required in U.S.)	Center section track guiding, for 312B (standard on 312B L)	Seat, suspension, fully adjustable KAB524
Autolube system	Swivel	Skylight, push-open
Blade, 2700 mm 8'10" wide	Vandalism protection	Starting aid, cold weather
Boom, with light, left side: 4.65 m (15'3")	Hand control pattern changer; 2 ways (SAE/STD BHL)	Starting system, cold weather
Boom lowering check valve	Headrest for standard seat	Sticks:
Buckets	Hydraulic arrangements, auxiliary:	3.0 m (9'10")
Bucket linkage	Single function arrangement	2.5 m (8'2")
Bucket sidecutters and tips	Double function arrangement	Sun visor, windshield
Bumpers, steel side protectors	Combined function arrangement, includes two pump flow	Track:
Cabs, optional:	Two pump flow arrangement	500 mm (20") triple grouser
Cab, with polycarbonate windows (required in the U.S.)	Hydraulic lines, auxiliary for boom and sticks	700 mm (28") triple grouser
Cab, with radio mount and vandal bosses	Lights, working, cab mounted two	770 mm (30") triple grouser
Cooling, high ambient 52C (125F)	Power supply, 12V-5A	Rubber belt
Fuel tank, additional capacity (20 hr)	Radio, AM/FM, stereo	Rubber belt
		Water separator
		Wiper, lower windshield

Lift Capacities - 2500 mm (8'2") Stick, 600 mm (24") Shoes, Standard Undercarriage



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

R2.5 STICK – 2.5 m (8'2")













BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Standard

SHOES – 600 mm (24") triple grouser

BOOM – 4650 mm (15'3")

BLADE – UP

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb									*1310 *2910	*1310 *2910	6.64 21.52
4.5 m 15.0 ft	kg lb					*2980 *6510	*2980 *6510	2940 6300	2210 4740	*1240 *2730	*1240 *2730	7.51 24.52
3.0 m 10.0 ft	kg lb			*5040 *10,780	*5040 *10,780	*3770 *8150	3480 7500	2870 6160	2150 4610	*1250 *2750	*1250 *2750	7.93 25.99
1.5 m 5.0 ft	kg lb			*7630 *16,380	6030 12,980	4420 9490	3230 6960	2770 5940	2050 4400	*1330 *2920	1260 2760	8.00 26.24
Ground Line	kg lb			*6730 *15,630	5630 12,090	4200 9020	3040 6530	2670 5730	1960 4210	*1500 *3300	1310 2890	7.72 25.31
-1.5 m -5.0 ft	kg lb	*4300 *9660	*4300 *9660	8310 17,760	5560 11,920	4110 8820	2950 6340	2620 5640	1920 4120	*1820 *4020	1520 3360	7.04 23.06
-3.0 m -10.0 ft	kg lb	*7640 *17,230	*7640 *17,230	*7840 *16,930	5650 12,130	4130 8890	2970 6400			*2520 *5630	2100 4700	5.82 18.93

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

R2.5 STICK – 2.5 m (8'2")













BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Standard

SHOES – 600 mm (24") triple grouser

BOOM – 4650 mm (15'3")

BLADE – DOWN

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb									*1310 *2910	*1310 *2910	6.64 21.52
4.5 m 15.0 ft	kg lb					*2980 *6510	*2980 *6510	*2970 *6510	2210 4740	*1240 *2730	*1240 *2730	7.51 24.52
3.0 m 10.0 ft	kg lb			*5040 *10,780	*5040 *10,780	*3770 *8150	3480 7500	*3250 *7090	2150 4610	*1250 *2750	*1250 *2750	7.93 25.99
1.5 m 5.0 ft	kg lb			*7630 *16,380	6030 12,980	*4760 *10,290	3230 6960	*3680 *8000	2050 4400	*1330 *2920	1260 2760	8.00 26.24
Ground Line	kg lb			*6730 *15,630	5630 12,090	*5500 *11,900	3040 6530	*4040 *8760	1960 4210	*1500 *3300	1310 2890	7.72 25.31
-1.5 m -5.0 ft	kg lb	*4300 *9660	*4300 *9660	*8800 *19,070	5560 11,920	*5710 *12,360	2950 6340	*4100 *8850	1920 4120	*1820 *4020	1520 3360	7.04 23.06
-3.0 m -10.0 ft	kg lb	*7640 *17,230	*7640 *17,230	*7840 *16,930	5650 12,130	*5230 *11,240	2970 6400			*2520 *5630	2100 4700	5.82 18.93

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 2500 mm (8'2") Stick, 770 mm (30") Shoes, Standard Undercarriage



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

R2.5 STICK – 2.5 m (8'2")













BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Standard

SHOES – 770 mm (30") triple grouser

BOOM – 4650 mm (15'3")

BLADE – UP

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb									*1310 *2910	*1310 *2910	6.64 21.52
4.5 m 15.0 ft	kg lb				*2980 *6510	*2980 *6510	*2970 6480	2270 4860	*1240 *2730	*1240 *2730	7.51 24.52	
3.0 m 10.0 ft	kg lb		*5040 *10,780	*5040 *10,780	*3770 *8150	3570 7670	2950 6340	2210 4730	*1250 *2750	*1250 *2750	7.93 25.99	
1.5 m 5.0 ft	kg lb		*7630 *16,380	6180 13,300	4540 9750	3310 7130	2850 6110	2110 4520	*1330 *2920	1300 2850	8.00 26.24	
Ground Line	kg lb		*6730 *15,630	5770 12,410	4320 9280	3120 6710	2750 5910	2020 4330	*1500 *3300	1350 2980	7.72 25.31	
-1.5 m -5.0 ft	kg lb	*4300 *9660	*4300 *9660	8540 18,260	5700 12,240	4220 9080	3030 6520	2710 5820	1980 4250	*1820 *4020	1570 3470	7.04 23.06
-3.0 m -10.0 ft	kg lb	*7640 *17,230	*7640 *17,230	*7840 *16,930	5800 12,450	4250 9140	3060 6580			*2520 *5630	2160 4830	5.82 18.93

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

R2.5 STICK – 2.5 m (8'2")













BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Standard

SHOES – 770 mm (30") triple grouser

BOOM – 4650 mm (15'3")

BLADE – DOWN

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb									*1310 *2910	*1310 *2910	6.64 21.52
4.5 m 15.0 ft	kg lb				*2980 *6510	*2980 *6510	*2970 6480	2270 4860	*1240 *2730	*1240 *2730	7.51 24.52	
3.0 m 10.0 ft	kg lb		*5040 *10,780	*5040 *10,780	*3770 *8150	3570 7670	*3250 *7090	2210 4730	*1250 *2750	*1250 *2750	7.93 25.99	
1.5 m 5.0 ft	kg lb		*7630 *16,380	6180 13,300	*4760 *10,290	3310 7130	*3680 *8000	2110 4520	*1330 *2920	1300 2850	8.00 26.24	
Ground Line	kg lb		*6730 *15,630	5770 12,410	*5500 *11,900	3120 6710	*4040 *8760	2020 4330	*1500 *3300	1350 2980	7.72 25.31	
-1.5 m -5.0 ft	kg lb	*4300 *9660	*4300 *9660	*8800 *19,070	5700 12,240	*5710 *12,360	3030 6520	*4100 *8850	1980 4250	*1820 *4020	1570 3470	7.04 23.06
-3.0 m -10.0 ft	kg lb	*7640 *17,230	*7640 *17,230	*7840 *16,930	5800 12,450	*5230 *11,240	3060 6580			*2520 *5630	2160 4830	5.82 18.93

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 3000 mm (9'10") Stick, 600 mm (24") Shoes, Standard Undercarriage



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

R3.0 STICK – 3.0 m (9'10")

UNDERCARRIAGE – Standard

BOOM – 4650 mm (15'3")

BUCKET – 775 mm, 0.46 m³ (30", 0.60 yd³)

SHOES – 600 mm (24") triple grouser

BLADE – UP

Load Point Height	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		m		
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	kg	lb	
7.5 m 25.0 ft											*1390	*1390	5.78
											*3110	*3110	18.44
6.0 m 20.0 ft							*2230	*2230			*1210	*1210	7.18
							*4430	*4430			*2670	*2670	23.35
4.5 m 15.0 ft							*2630	2270			*1150	*1150	7.98
							*5790	4860			*2540	*2540	26.10
3.0 m 10.0 ft					*3320	*3320	2920	2190	*1660	1430	*1170	*1170	8.38
					*7200	*7200	6260	4700	*3660	3160	*2570	*2570	27.46
1.5 m 5.0 ft			*6790	6230	*4380	3290	2790	2070	1900	1400	*1240	1150	8.44
			*14,580	13,410	*9480	7080	6000	4450	4070	2980	*2730	2520	27.69
Ground Line			*7810	5690	4230	3060	2680	1960	1880	1350	*1400	1190	8.18
			18,120	12,220	9080	6570	5750	4220	4090	2980	*3080	2610	26.83
-1.5 m -5.0 ft	kg	*3960	*3960	8270	5520	4090	2930	2610	1900		*1680	1350	7.55
	lb	*8880	*8880	17,670	11,840	8780	6300	5600	4080		*3720	2970	24.74
-3.0 m -10.0 ft	kg	*6600	*6600	*8280	5550	4080	2920	2620	1910		*2270	1760	6.45
	lb	*14,860	*14,860	17,760	11,920	8760	6280	5640	4110		*5060	3930	21.01
-4.5 m -15.0 ft	kg			*6480	5750	*4130	3040				*3630	2750	4.83
	lb			*13,780	12,380	*8570	6580				*8000	6260	15.54

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

R3.0 STICK – 3.0 m (9'10")

UNDERCARRIAGE – Standard

BOOM – 4650 mm (15'3")

BUCKET – 775 mm, 0.46 m³ (30", 0.60 yd³)

SHOES – 600 mm (24") triple grouser

BLADE – DOWN

Load Point Height	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		m		
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	kg	lb	
7.5 m 25.0 ft											*1390	*1390	5.78
											*3110	*3110	18.44
6.0 m 20.0 ft							*2230	*2230			*1210	*1210	7.18
							*4430	*4430			*2670	*2670	23.35
4.5 m 15.0 ft							*2630	2270			*1150	*1150	7.98
							*5790	4860			*2540	*2540	26.10
3.0 m 10.0 ft					*3320	*3320	*2970	2190	*1660	1430	*1170	*1170	8.38
					*7200	*7200	*6480	4700	*3660	3160	*2570	*2570	27.46
1.5 m 5.0 ft			*6790	6230	*4380	3290	*3460	2070	*2360	1400	*1240	1150	8.44
			*14,580	13,410	*9480	7080	*7510	4450	*4270	2980	*2730	2520	27.69
Ground Line			*7810	5690	*5260	3060	*3900	1960	*2110	1350	*1400	1190	8.18
			*18,170	12,220	*11,400	6570	*8450	4220	*4650	2980	*3080	2610	26.83
-1.5 m -5.0 ft	kg	*3960	*3960	*8790	5520	*5670	2930	*4100	1900		*1680	1350	7.55
	lb	*8880	*8880	*19,260	11,840	*12,270	6300	*8870	4080		*3720	2970	24.74
-3.0 m -10.0 ft	kg	*6600	*6600	*8280	5550	*5450	2920	*3790	1910		*2270	1760	6.45
	lb	*14,860	*14,860	*17,900	11,920	*11,760	6280	*8060	4110		*5060	3930	21.01
-4.5 m -15.0 ft	kg			*6480	5750	*4130	3040				*3630	2750	4.83
	lb			*13,780	12,380	*8570	6580				*8000	6260	15.54

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 3000 mm (9'10") Stick, 770 mm (30") Shoes, Standard Undercarriage



Load Point Height



Load at Maximum Reach



Load Radius Over Front

















Load Radius Over Side

R3.0 STICK – 3.0 m (9'10")
BUCKET – 775 mm, 0.46 m³ (30", 0.60 yd³)

UNDERCARRIAGE – Standard
SHOES – 770 mm (30") triple grouser

BOOM – 4650 mm (15'3")
BLADE – UP















	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft	
														
7.5 m 25.0 ft	kg lb											*1390 *3110	*1390 *3110	5.78 18.44
6.0 m 20.0 ft	kg lb						*2230 *4430	*2230 *4430				*1210 *2670	*1210 *2670	7.18 23.35
4.5 m 15.0 ft	kg lb						*2630 *5790	2330 4980				*1150 *2540	*1150 *2540	7.98 26.10
3.0 m 10.0 ft	kg lb					*3320 *7200	*3320 *7200	*2970 6440	2250 4830	*1660 *3660	1480 3250	*1170 *2570	*1170 *2570	8.38 27.46
1.5 m 5.0 ft	kg lb		*6790 *14,580	6380 13,730	*4380 *9480	3370 7260	2870 6170	2130 4580	1960 4200	1440 3080		*1240 *2730	1180 2610	8.44 27.69
Ground Line	kg lb		*7810 18,170	5830 12,530	4350 9340	3140 6750	2760 5920	2020 4340	1920 4230	1400 3080		*1400 *3080	1230 2700	8.18 26.83
-1.5 m -5.0 ft	kg lb	*3960 *8880	*3960 *8880	8500 18,160	5660 12,160	4210 9040	3010 6480	2690 5780	1960 4200			*1680 *3720	1390 3070	7.55 24.74
-3.0 m -10.0 ft	kg lb	*6600 *14,860	*6600 *14,860	*8280 *17,900	5700 12,230	4190 9010	3000 6460	2700 5810	1970 4240			*2270 *5060	1820 4050	6.45 21.01
-4.5 m -15.0 ft	kg lb			*6480 *13,780	5900 12,690	*4130 *8570	3130 6760					*3630 *8000	2830 6430	4.83 15.54

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

R3.0 STICK – 3.0 m (9'10")
BUCKET – 775 mm, 0.46 m³ (30", 0.60 yd³)

UNDERCARRIAGE – Standard
SHOES – 770 mm (30") triple grouser

BOOM – 4650 mm (15'3")
BLADE – DOWN

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft	
														
7.5 m 25.0 ft	kg lb											*1390 *3110	*1390 *3110	5.78 18.44
6.0 m 20.0 ft	kg lb						*2230 *4430	*2230 *4430				*1210 *2670	*1210 *2670	7.18 23.35
4.5 m 15.0 ft	kg lb						*2630 *5790	2330 4980				*1150 *2540	*1150 *2540	7.98 26.10
3.0 m 10.0 ft	kg lb					*3320 *7200	*3320 *7200	*2970 6480	2250 4830	*1660 *3660	1480 3250	*1170 *2570	*1170 *2570	8.38 27.46
1.5 m 5.0 ft	kg lb		*6790 *14,580	6380 13,730	*4380 *9480	3370 7260	*3460 *7510	2130 4580	*2360 *4270	1440 3080		*1240 *2730	1180 2610	8.44 27.69
Ground Line	kg lb		*7810 *18,170	5830 12,530	*5260 *11,400	3140 6750	*3900 *8450	2020 4340	*2110 *4650	1400 3080		*1400 *3080	1230 2700	8.18 26.83
-1.5 m -5.0 ft	kg lb	*3960 *8880	*3960 *8880	*8790 *19,260	5660 12,160	*5670 *12,270	3010 6480	*4100 *8870	1960 4200			*1680 *3720	1390 3070	7.55 24.74
-3.0 m -10.0 ft	kg lb	*6600 *14,860	*6600 *14,860	*8280 *17,900	5700 12,230	*5450 *11,760	3000 6460	*3790 *8060	1970 4240			*2270 *5060	1820 4050	6.45 21.01
-4.5 m -15.0 ft	kg lb			*6480 *13,780	5900 12,690	*4130 *8570	3130 6760					*3630 *8000	2830 6430	4.83 15.54

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 2500 mm (8'2") Stick, 600 mm (24") Shoes, Long Undercarriage



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

R2.5 STICK – 2.5 m (8'2")













BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Standard

SHOES – 600 mm (24") triple grouser

BOOM – 4650 mm (15'3")

BLADE – UP

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb									*1310 *2910	*1310 *2910	6.64 21.53
4.5 m 15.0 ft	kg lb					*2980 *6510	*2980 *6510	*2970 *6510	2260 4840	*1240 *2730	*1240 *2730	7.51 24.53
3.0 m 10.0 ft	kg lb			*5040 *10,780	*5040 *10,780	*3770 *8150	3550 7640	*3250 *7090	2200 4710	*1250 *2750	*1250 *2750	7.93 25.99
1.5 m 5.0 ft	kg lb			*7630 *16,390	6150 13,240	*4760 *10,290	3300 7100	3200 6880	2100 4500	*1330 *2930	1290 2840	8.00 26.24
Ground Line	kg lb			*6730 *15,630	5750 12,350	4920 10,560	3100 6670	3100 6670	2010 4310	*1500 *3300	1350 2960	7.71 25.31
-1.5 m -5.0 ft	kg lb	*4310 *9670	*4310 *9670	*8800 *19,070	5680 12,180	4820 10,350	3020 6490	3060 6580	1960 4220	*1820 *4020	1560 3450	7.04 23.06
-3.0 m -10.0 ft	kg lb	*7650 *17,240	*7650 *17,240	*7840 *16,920	5770 12,390	4850 10,420	3040 6550			*2520 *5630	2150 4810	5.82 18.92

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

R2.5 STICK – 2.5 m (8'2")













BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Long

SHOES – 600 mm (24") triple grouser

BOOM – 4650 mm (15'3")

BLADE – DOWN

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb									*1310 *2910	*1310 *2910	6.64 21.53
4.5 m 15.0 ft	kg lb					*2980 *6510	*2980 *6510	*2970 *6510	2260 4840	*1240 *2730	*1240 *2730	7.51 24.53
3.0 m 10.0 ft	kg lb			*5040 *10,780	*5040 *10,780	*3770 *8150	3550 7640	*3250 *7090	2200 4710	*1250 *2750	*1250 *2750	7.93 25.99
1.5 m 5.0 ft	kg lb			*7630 *16,390	6150 13,240	*4760 *10,290	3300 7100	*3680 *8000	2100 4500	*1330 *2930	1290 2840	8.00 26.24
Ground Line	kg lb			*6730 *15,630	5750 12,350	*5500 *11,900	3100 6670	*4040 *8760	2010 4310	*1500 *3300	1350 2960	7.71 25.31
-1.5 m -5.0 ft	kg lb	*4310 *9670	*4310 *9670	*8800 *19,070	5680 12,180	*5710 *12,360	3020 6490	*4100 *8850	1960 4220	*1820 *4020	1560 3450	7.04 23.06
-3.0 m -10.0 ft	kg lb	*7650 *17,240	*7650 *17,240	*7840 *16,920	5770 12,390	*5220 *11,230	3040 6550			*2520 *5630	2150 4810	5.82 18.92

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 2500 mm (8'2") Stick, 770 mm (30") Shoes, Long Undercarriage



Load Point
Height



Load at
Maximum Reach



Load Radius
Over Front



Load Radius
Over Side

R2.5 STICK – 2.5 m (8'2")

BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Medium

SHOES – 770 mm (30") triple grouser

BOOM – 4650 mm (15'3")

BLADE – UP

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft
6.0 m 20.0 ft	kg lb									*1310 *2910	*1310 *2910	6.64 21.53
4.5 m 15.0 ft	kg lb					*2980 *6510	*2980 *6510	*2970 *6510	2310 4950	*1240 *2730	*1240 *2730	7.51 24.53
3.0 m 10.0 ft	kg lb			*5040 *10,780	*5040 *10,780	*3770 *8150	3620 7800	*3250 *7090	2250 4820	*1250 *2750	*1250 *2750	7.93 25.99
1.5 m 5.0 ft	kg lb			*7630 *16,390	6280 13,520	*4760 *10,290	3370 7260	3280 7050	2150 4610	*1330 *2930	1330 2920	8.00 26.24
Ground Line	kg lb			*6730 *15,630	5880 12,630	5040 10,820	3180 6830	3180 6840	2060 4420	*1500 *3300	1380 3040	7.71 25.31
-1.5 m -5.0 ft	kg lb	*4310 *9670	*4310 *9670	*8800 *19,070	5800 12,460	4940 10,610	3090 6650	3140 6750	2020 4330	*1820 *4020	1600 3540	7.04 23.06
-3.0 m -10.0 ft	kg lb	*7650 *17,240	*7650 *17,240	*7840 *16,920	5900 12,670	4970 10,680	3110 6710			*2520 *5630	2200 4930	5.82 18.92

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

R2.5 STICK – 2.5 m (8'2")

BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Long

SHOES – 770 mm (30") triple grouser

BOOM – 4650 mm (15'3")

BLADE – DOWN

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft
6.0 m 20.0 ft	kg lb									*1310 *2910	*1310 *2910	6.64 21.53
4.5 m 15.0 ft	kg lb					*2980 *6510	*2980 *6510	*2970 *6510	2310 4950	*1240 *2730	*1240 *2730	7.51 24.53
3.0 m 10.0 ft	kg lb			*5040 *10,780	*5040 *10,780	*3770 *8150	3620 7800	*3250 *7090	2250 4820	*1250 *2750	*1250 *2750	7.93 25.99
1.5 m 5.0 ft	kg lb			*7630 *16,390	6280 13,520	*4760 *10,290	3370 7260	*3680 *8000	2150 4610	*1330 *2930	1330 2920	8.00 26.24
Ground Line	kg lb			*6730 *15,630	5880 12,630	*5500 *11,900	3180 6830	*4040 *8760	2060 4420	*1500 *3300	1380 3040	7.71 25.31
-1.5 m -5.0 ft	kg lb	*4310 *9670	*4310 *9670	*8800 *19,070	5800 12,460	*5710 *12,360	3090 6650	*4100 *8850	2020 4330	*1820 *4020	1600 3540	7.04 23.06
-3.0 m -10.0 ft	kg lb	*7650 *17,240	*7650 *17,240	*7840 *16,920	5900 12,670	*5220 *11,230	3110 6710			*2520 *5630	2200 4930	5.82 18.92

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 3000 mm (9'10") Stick, 600 mm (24") Shoes, Long Undercarriage



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

R3.0 STICK – 3.0 m (9'10")

BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Long

SHOES – 600 mm (24") triple grouser

BOOM – 4650 mm (15'3")

BLADE – UP

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft	
7.5 m 25.0 ft	kg lb											*1350 *3040	*1350 *3040	5.78 18.45
6.0 m 20.0 ft	kg lb						*2200 *4360	*2200 *4360				*1170 *2590	*1170 *2590	7.19 23.35
4.5 m 15.0 ft	kg lb						*2600 *5710	2290 4900				*1120 *2460	*1120 *2460	7.98 26.10
3.0 m 10.0 ft	kg lb				*3290 *7140	*3290 *7140	*2940 *6410	2210 4740	*1630 *3590	1440 3170	*1130 *2490	*1130 *2490	8.38 27.46	
1.5 m 5.0 ft	kg lb		*6760 *14,520	6330 13,620	*4350 *9410	3330 7170	3210 6880	2090 4490	2190 *4210	1400 2990	*1210 *2660	*1150 2520	8.44 27.69	
Ground Line	kg lb		*7760 *18,060	5780 12,410	4920 10,570	3100 6660	3090 6630	1980 4260	*2090 *4600	1360 3000	*1360 *3000	1190 2610	8.18 26.83	
-1.5 m -5.0 ft	kg lb	*3930 *8810	*3930 *8810	*8750 *19,180	5610 12,030	4780 10,260	2970 6390	3010 6480	1920 4120		*1650 *3640	1350 2980	7.55 24.74	
-3.0 m -10.0 ft	kg lb	*6560 *14,780	*6560 *14,780	*8250 *17,830	5640 12,120	4770 10,230	2960 6370	3020 6510	1930 4150		*2230 *4980	1780 3960	6.45 21.01	
-4.5 m -15.0 ft	kg lb			*6440 *13,700	5850 12,580	*4090 *8500	3090 6670				*3600 *7930	2790 6350	4.83 15.54	

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

R3.0 STICK – 3.0 m (9'10")

BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Long

SHOES – 600 mm (24") triple grouser

BOOM – 4650 mm (15'3")

BLADE – DOWN

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft	
7.5 m 25.0 ft	kg lb											*1350 *3040	*1350 *3040	5.78 18.45
6.0 m 20.0 ft	kg lb						*2200 *4360	*2200 *4360				*1170 *2590	*1170 *2590	7.19 23.35
4.5 m 15.0 ft	kg lb						*2600 *5710	2290 4900				*1120 *2460	*1120 *2460	7.98 26.10
3.0 m 10.0 ft	kg lb				*3290 *7140	*3290 *7140	*2940 *6410	2210 4740	*1630 *3590	1440 3170	*1130 *2490	*1130 *2490	8.38 27.46	
1.5 m 5.0 ft	kg lb		*6760 *14,520	6330 13,620	*4350 *9410	3330 7170	*3420 *7440	2090 4490	*2340 *4210	1400 2990	*1210 *2660	*1150 2520	8.44 27.69	
Ground Line	kg lb		*7760 *18,060	5780 12,410	*5230 *11,330	3100 6660	*3860 *8380	1980 4260	*2090 *4600	1360 3000	*1360 *3000	1190 2610	8.18 26.83	
-1.5 m -5.0 ft	kg lb	*3930 *8810	*3930 *8810	*8750 *19,180	5610 12,030	*5640 *12,200	2970 6390	*4070 *8800	1920 4120		*1650 *3640	1350 2980	7.55 24.74	
-3.0 m -10.0 ft	kg lb	*6560 *14,780	*6560 *14,780	*8250 *17,830	5640 12,120	*5420 *11,690	2960 6370	*3750 *7990	1930 4150		*2230 *4980	1780 3960	6.45 21.01	
-4.5 m -15.0 ft	kg lb			*6440 *13,700	5850 12,580	*4090 *8500	3090 6670				*3600 *7930	2790 6350	4.83 15.54	

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 3000 mm (9'10") Stick, 770 mm (30") Shoes, Long Undercarriage



Load Point
Height



Load at
Maximum Reach



Load Radius
Over Front



Load Radius
Over Side

R3.0 STICK – 3.0 m (9'10")















BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Long

SHOES – 770 mm (30") triple grouser

BOOM – 4650 mm (15'3")

BLADE – UP

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft	
														
7.5 m 25.0 ft	kg lb											*1350 *3040	*1350 *3040	5.78 18.45
6.0 m 20.0 ft	kg lb						*2200 *4360	*2200 *4360				*1170 *2590	*1170 *2590	7.19 23.35
4.5 m 15.0 ft	kg lb						*2600 *5710	2340 5010				*1120 *2460	*1120 *2460	7.98 26.10
3.0 m 10.0 ft	kg lb					*3290 *7140	*3290 *7140	*2940 *6410	2260 4850	*1630 *3590	1480 3260	*1130 *2490	*1130 *2490	8.38 27.46
1.5 m 5.0 ft	kg lb		*6760 *14,520	6460 13,900	*4350 *9410	3410 7330	3290 7060	2140 4600	2250 *4210	1440 3080		*1210 *2660	*1180 2600	8.44 27.69
Ground Line	kg lb		*7760 *18,060	5910 12,690	5040 10,830	3170 6820	3170 6800	2030 4370	*2090 *4600	1400 3080		*1360 *3000	1220 2690	8.18 26.83
-1.5 m -5.0 ft	kg lb	*3930 *8810	*3930 *8810	*8750 *19,180	5740 12,310	4900 10,520	3050 6550	3090 6650	1970 4230			*1650 *3640	1390 3070	7.55 24.74
-3.0 m -10.0 ft	kg lb	*6560 *14,780	*6560 *14,780	*8250 *17,830	5770 12,390	4890 10,490	3030 6530	3100 6680	1980 4260			*2230 *4980	1820 4060	6.45 21.01
-4.5 m -15.0 ft	kg lb			*6440 *13,700	5980 12,860	*4090 *8500	3160 6830					*3600 *7930	2860 6500	4.83 15.54

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

R3.0 STICK – 3.0 m (9'10")















BUCKET – 925 mm, 0.57 m³ (36", 0.75 yd³)

UNDERCARRIAGE – Long

SHOES – 770 mm (30") triple grouser

BOOM – 4650 mm (15'3")

BLADE – DOWN

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft	
														
7.5 m 25.0 ft	kg lb											*1350 *3040	*1350 *3040	5.78 18.45
6.0 m 20.0 ft	kg lb						*2200 *4360	*2200 *4360				*1170 *2590	*1170 *2590	7.19 23.35
4.5 m 15.0 ft	kg lb						*2600 *5710	2340 5010				*1120 *2460	*1120 *2460	7.98 26.10
3.0 m 10.0 ft	kg lb					*3290 *7140	*3290 *7140	*2940 *6410	2260 4850	*1630 *3590	1480 3260	*1130 *2490	*1130 *2490	8.38 27.46
1.5 m 5.0 ft	kg lb		*6760 *14,520	6460 13,900	*4350 *9410	3410 7330	*3420 *7440	2140 4600	*2340 *4210	1440 3080		*1210 *2660	*1180 2600	8.44 27.69
Ground Line	kg lb		*7760 *18,060	5910 12,690	*5230 *11,330	3170 6820	*3860 *8380	2030 4370	*2090 *4600	1400 3080		*1360 *3000	1220 2690	8.18 26.83
-1.5 m -5.0 ft	kg lb	*3930 *8810	*3930 *8810	*8750 *19,180	5740 12,310	*5640 *12,200	3050 6550	*4070 *8800	1970 4230			*1650 *3640	1390 3070	7.55 24.74
-3.0 m -10.0 ft	kg lb	*6560 *14,780	*6560 *14,780	*8250 *17,830	5770 12,390	*5420 *11,690	3030 6530	*3750 *7990	1980 4260			*2230 *4980	1820 4060	6.45 21.01
-4.5 m -15.0 ft	kg lb			*6440 *13,700	5980 12,860	*4090 *8500	3160 6830					*3600 *7930	2860 6500	4.83 15.54

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

312B Hydraulic Excavator

AEHQ5200 (11-96)
Replaces AEHQ3832-02

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