

This page left blank.

SPECIFICATIONS - 580 SUPER L

ENGINE DATA - 580 SUPER L

Make and model	Case 4T-390
Firing order	1-3-4-2
Air induction	Turbocharged
Bore and stroke	102 x 120 mm (4.02 x 4.72 inches)
Displacement	3.92 litres (239 cu in)
Compression ratio	17.5 to 1
Fuel	See page 146
Horsepower - rated	
SAE net	64 kW at 2 200 r/min (86 at 2 200 rpm)
SAE gross	68 kW at 2 200 r/min (91 at 2 200 rpm)
Engine speeds	
Full throttle - no load	2 325 to 2 425 rpm
Full throttle - full load	2 200 rpm
Idle speed	900 to 975 rpm
Loader hydraulic stall	2 150 to 2 390 rpm
Torque converter stall	2 030 to 2 250 rpm
Combined stall	1 480 to 1 650 rpm
Backhoe hydraulic stall	2 100 to 2 300 rpm
Valve clearance - engine cold	
Intake valves	0.254 mm (0.010 inch)
Exhaust valves	0.508 mm (0.020 inch)

BOLT TORQUES

Front wheel mounting bolts (2 wheel drive)	156 to 203 Nm (115 to 150 pound-feet)
Front wheel mounting nuts (4 wheel drive)	270 to 352 Nm (200 to 260 pound-feet)
Rear wheel mounting nuts	129 to 136 Nm (95 to 100 pound-feet)

Then turn in the tightening direction an additional 55 to 65 degrees. This applies to the rear wheel nuts only.

MAIN RELIEF VALVE PRESSURES - 580 SUPER L

Loader and backhoe	207 + 7 - 0 bar (3 000 + 100 - 0 psi)
--------------------------	--

(The loader control valve controls the loader and backhoe hydraulic pressure.)

TRAVEL SPEEDS - 580 SUPER L

Measured with 19.5L x 24 Tires

	1st km/h (mph)	2nd km/h (mph)	3rd km/h (mph)	4th km/h (mph)
Forward	5.98 (3.72)	10.80 (6.71)	20.78 (12.91)	41.56 (25.83)
Reverse	7.22 (4.48)	13.02 (8.09)	25.01 (15.54)	49.97 (31.05)

NOTE: (Travel speeds measured at 2 353 engine rpm with zero torque converter slip)

OPERATING WEIGHTS - 580 SUPER L

Lightest Configuration

2 083 mm (82 inch) standard bucket, 2WD, 17.5L x 24 rear tires, 11L x 16 front tires, no front counterweight, standard dipper, cast stabilizer pads, non-suspension seat, ROPS canopy, single battery, no operator..... 6 025 kg (13 283 pounds)

Heaviest Configuration

2 083 mm (82 inch) 4-in-1 bucket, 4WD, 19.5L x 24 rear tires, 12 x 16.5 front tires, 225 kg (500 pound) front counterweight, extendahoe, 610 mm (24 inch) HD bucket, flip over stabilizer pads, suspension seat, ROPS Cab, Air Conditioner, Dual Batteries, no operator, and mechanical front wheel drive guard 7 151 kg (15 764 pounds)

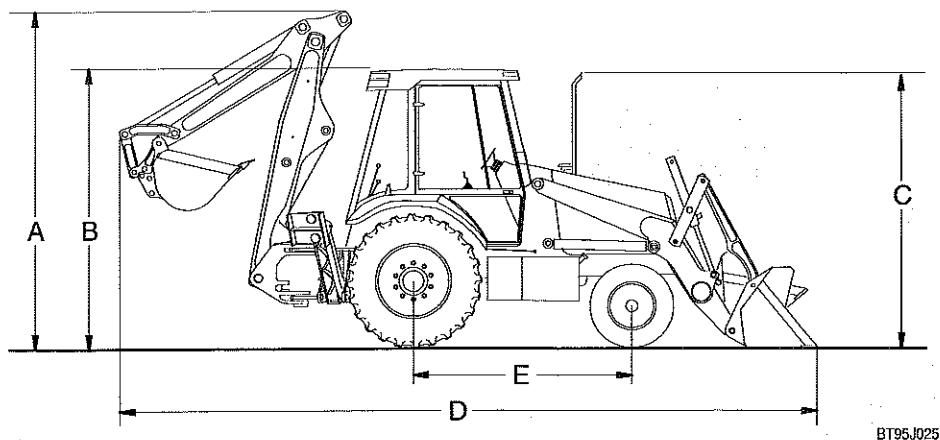
LOADER BUCKETS - 580 SUPER L

Width mm (Inch)	Type	Capacities SAE Heaped m ³ (cu yds)	Capacities Struck m ³ (cu yds)	Weight kg (lbs)
2 083 (82)	Long Lip	0.77 (1.01)	0.68 (0.88)	392 (864)
2 083 (82)	4-in-1	0.79 (1.04)	0.65 (0.85)	663 (1 462)

BACKHOE BUCKETS - 580 SUPER L

Width mm (Inch)	Type	Capacities SAE Heaped m ³ (cu feet)	Capacities Struck m ³ (cu foot)	Weight kg (lbs)
305 (12)	Universal HD	0.068 (2.41)	0.082 (2.90)	141 (311)
406 (16)	Universal HD	0.083 (2.92)	0.101 (3.60)	157 (346)
457 (18)	Universal HD	0.094 (3.33)	0.122 (4.30)	163 (359)
610 (24)	Universal HD	0.135 (4.78)	0.181 (6.40)	195 (429)
762 (30)	Universal HD	0.176 (6.22)	0.245 (8.65)	225 (496)
914 (36)	Universal HD	0.217 (7.67)	0.306 (10.80)	259 (571)
610 (24)	High Capacity HD	0.241 (8.50)	0.195 (6.90)	195 (430)
762 (30)	High capacity HD	0.300 (10.6)	0.243 (8.60)	203 (447)

BASIC MACHINE DIMENSIONS - 580 SUPER L



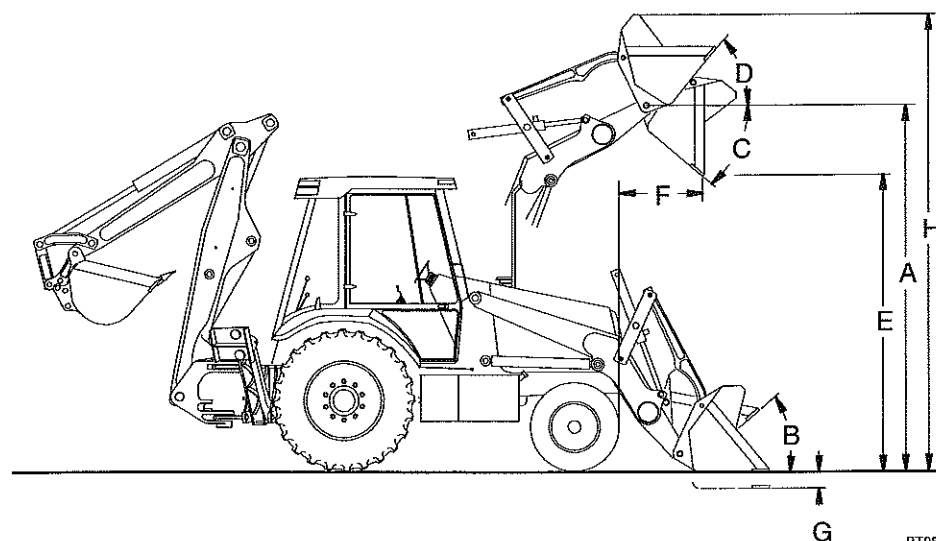
BT95J025

- A Overall height - backhoe in transport position
 - 2 Wheel drive 3.30 m (10 ft 10 in)
 - 4 Wheel drive 3.30 m (10 ft 9.7 in)
- B Height to top of ROPS canopy
 - 2 Wheel drive 2.67 m (8 ft 9.2 in)
 - 4 Wheel drive 2.67 m (8 ft 9.1 in)
- B Height to top of ROPS cab
 - 2 Wheel drive 2.72 m (8 ft 11.1 in)
 - 4 Wheel drive 2.72 m (8 ft 11 in)
- C Height to top of exhaust stack
 - 2 Wheel drive 2.64 m (8 ft 7.9 in)
 - 4 Wheel drive 2.63 m (8 ft 7.5 in)
- D Overall length - backhoe in transport position, loader bucket on the ground
 - 2 083 mm (82 inch) standard bucket 6.92 m (22 ft 8.5 in)
 - 2 083 mm (82 inch) 4-in-1 bucket 6.89 m (22 ft 7.2 in)
- E Wheel base
 - 2 Wheel drive 2 134 mm (84.0 inches)
 - 4 Wheel drive 2 146 mm (84.5 inches)
- Width over tires
 - 11L x 16 tires 2 009 mm (79.1 inches)
 - 12 x 16.5 tires 2 060 mm (81.1 inches)
 - 19.5L x 24 tires 2 077 mm (81.8 inches)
 - 17.5L x 24 tires 2 077 mm (81.8 inches)
 - 16.9 x 24 tires 2 077 mm (81.8 inches)
- Ground clearance at the backhoe frame 375 mm (14.8 inches)

NOTE: Specifications on 2 wheel drive machines are measured with 11L x 16 front tires and 19.5L x 24 rear tires. Specifications on 4 wheel drive machines are measured with 12 x 16.5 front tires and 19.5L x 24 rear tires.

LOADER OPERATING DATA AND DIMENSIONS - 580 SUPER L

2 083 mm (82 Inch) Standard Bucket

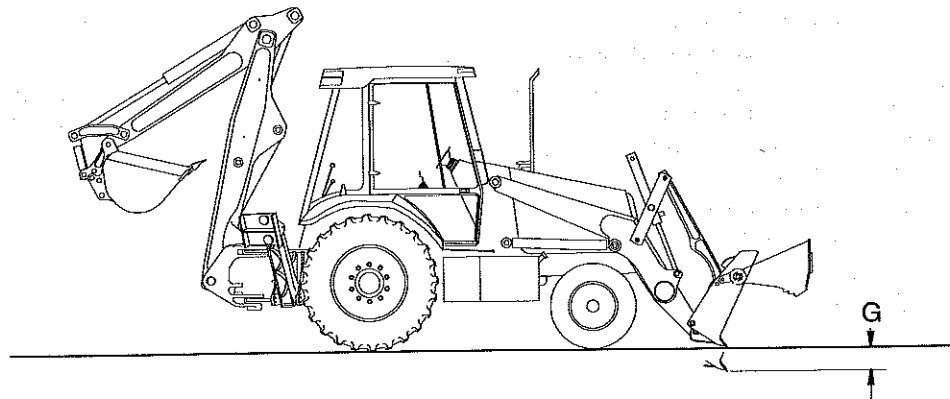
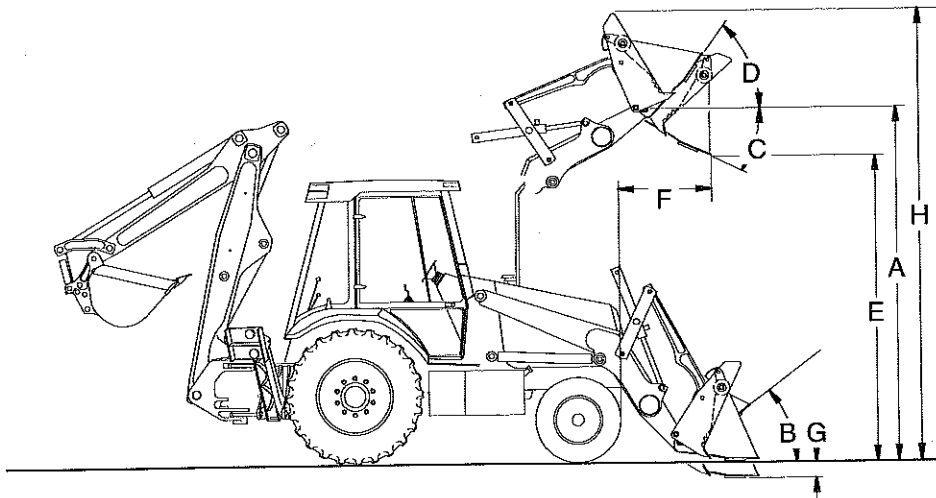


BT95J023

- Lift capacity to full height 2 937 kg (6 474 pounds)
- A Height to bucket hinge pin - raised
 - 2 Wheel drive 3.41 m (11 ft 2.4 in)
 - 4 Wheel drive 3.41 m (11 ft 2 in)
- B Bucket rollback at groundline 40°
- C Dump angle at full height 45°
- D Rollback at full height Adjustable
- Maximum grading angle 116°
- E Dump clearance at full height - 45° dump
 - 2 Wheel drive 2.69 m (8 ft 9.8 in)
 - 4 Wheel drive 2.68 m (8 ft 9.5 in)
- F Dump reach at full height - 45° dump 703 mm (27.7 inches)
- G Digging depth below ground line with bucket flat
 - 2 Wheel drive 149 mm (5.9 inches)
 - 4 Wheel drive 157 mm (6.2 inches)
- H Overall height
 - 2 Wheel drive 4.26 m (13 ft 11.5 in)
 - 4 Wheel drive 4.26 m (13 ft 11.6 in)

LOADER OPERATING DATA AND DIMENSIONS - 580 SUPER L

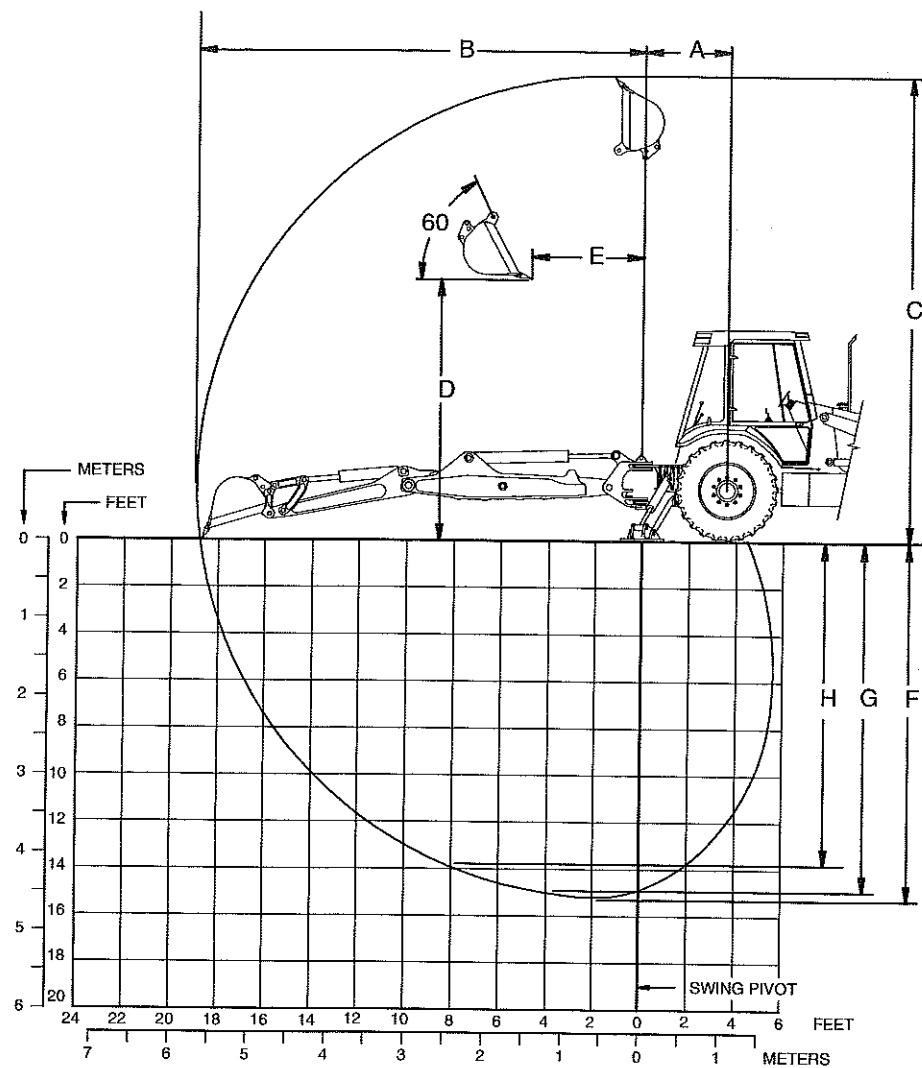
2 083 mm (82 Inch) 4-in-1 Bucket



BT95J024

Lift capacity to full height	2 501 kg (5 514 pounds)
A Height to bucket hinge pin - raised	
2 Wheel drive	3.41 m (11 ft 2.4 in)
4 Wheel drive	3.41 m (11 ft 2 in)
B Bucket rollback at groundline	40°
C Dump angle at full height	45°
D Rollback at full height	Adjustable
Maximum grading angle	116°
E Dump clearance at full height - 45° dump	
2 Wheel drive	
Clam open	2.94 m (9 ft 7.8 in)
Clam closed	2.72 m (8 ft 11.1 in)
4 Wheel drive	
Clam open	2.93 m (9 ft 7.5 in)
Clam closed	2.71 m (8 ft 10.8 in)
F Dump reach at full height - 45° dump	
Clam open	302 mm (11.9 inches)
Clam closed	647 mm (25.5 inches)
G Digging depth below ground line with bucket flat	
2 Wheel drive	172 mm (6.8 inches)
4 Wheel drive	180 mm (7.1 inches)
Dozing depth	
2 Wheel drive	103 mm (4.1 inches)
4 Wheel drive	111 mm (4.4 inches)
H Overall height	
2 Wheel drive	4.35 m (14 ft 3.3 in)
4 Wheel drive	4.35 m (14 ft 3.4 in)

BACKHOE OPERATING DATA AND DIMENSIONS - 580 SUPER L



BT95J098

NOTE: Specifications taken with 2 wheel drive, 610 mm (24 inch) universal HD backhoe bucket, 19.5L x 24 rear tires.

A	Swing pivot to rear axle centerline	1.10 m (3 ft 7.3 in)
B	Digging radius from swing pivot	5.50 m (18 ft 0.6 in)
C	Maximum height	5.85 m (19 ft 2.1 in)
D	Loading height	3.39 m (*11 ft 1.6 in)
		3.12 m (10 ft 2.8 in)
E	Loading reach	2.66 m (*8 ft 8.6 in)
		1.78 m (5 ft 10.1 in)
F	Dig depth	4.39 m (14 ft 4.8 in)
G	Dig depth, 610 mm (2 ft) flat bottom trench	4.35 m (14 ft 3.1 in)
H	Dig depth, 2.4 m (8 ft) flat bottom trench	4.06 m (13 ft 3.7 in)

* Maximum height and maximum reach are not obtainable at the same time and the same backhoe position.