



# 510D

## BACKHOE LOADER

**SAE Net  
Horsepower**

95 hp  
(71 kW)

**Digging  
Depth**

16 ft. 5 in.  
(5.00 m)

**Loader  
Lift**

7,300 lb.  
(3310 kg)

Model shown may include options





## QUICK COUPLER

Change buckets quickly, effortlessly with a John Deere quick coupler. The coupler provides power-dig and truck-loading capabilities and is available as an option from the factory. Pick up all John Deere "C" and "D" series buckets. Case 580D, E-, and K-series buckets will retro-fit with the optional Case pin-and-washer kit supplied by your John Deere dealer.



## EXTENDABLE DIPPERSTICK

Increase your digging depth and your reach by five feet with the John Deere extendable dipperstick, available from the factory or as a field-installed option. Inner box features lifetime wear strips and should be lubricated with regular grease. Dipperstick also contains a lock pin. Properly-sized hydraulic attachments may be used with dipperstick extended or retracted.



## OPERATOR'S STATION

The quietest cab in the industry with a DBA level of less than 80. Large entrance doors on both sides allow convenient entrance and exit. Doors open within machine width so they aren't susceptible to damage. 4700 sq. in. (30 322 cm<sup>2</sup>) of window area opens for excellent ventilation.



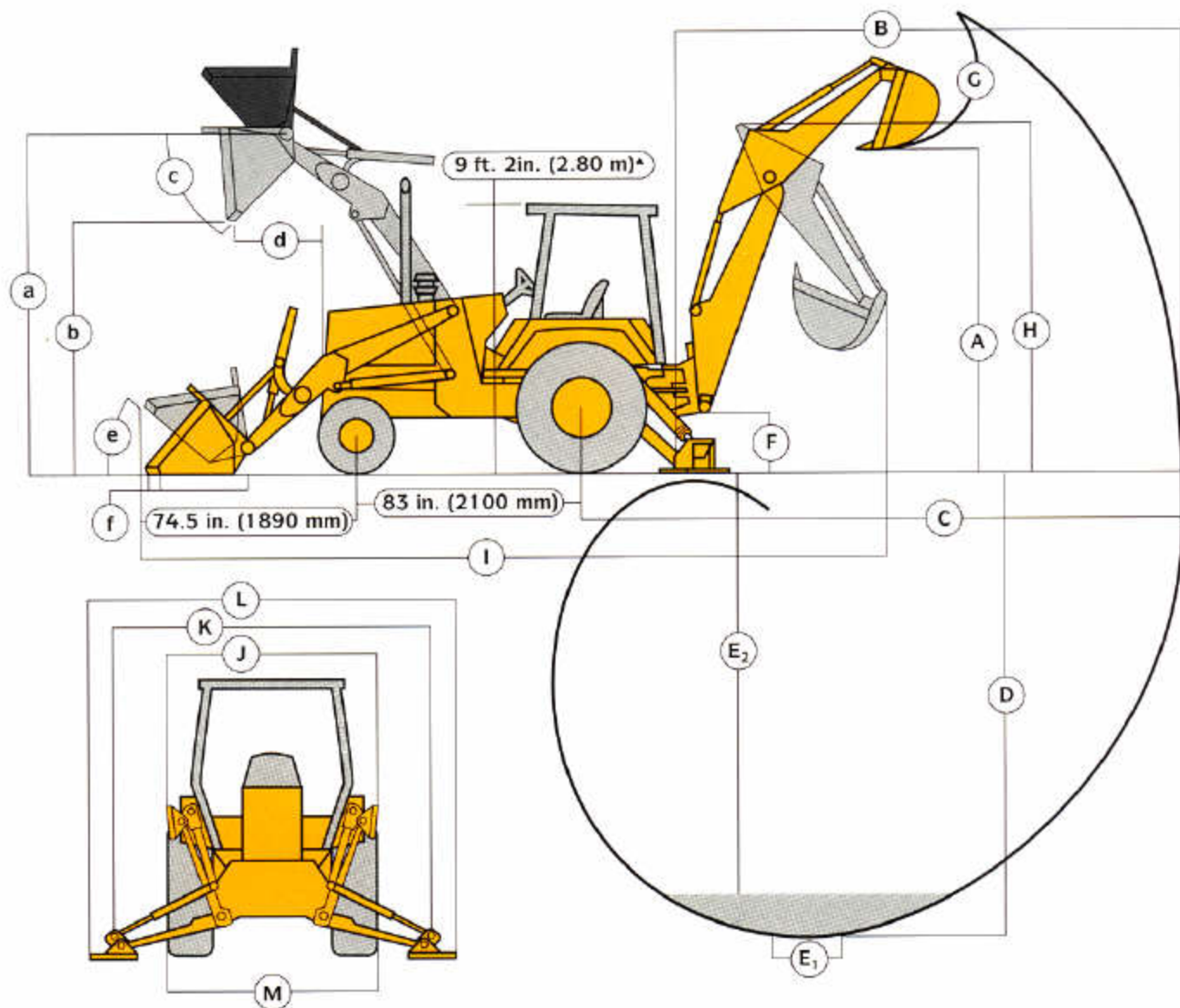
## ELECTRONIC MONITORING

Audible and two-stage visible warnings alert you to potential problems. Electronic parking brake located on console is automatically applied when engine is shut off. Mechanical-Front-Wheel-Drive button can be easily applied with a flip of the switch. Convenient rotary dial controls air-conditioning temperature when equipped with the optional factory air conditioning.



# DIMENSIONS

[a-f] See Loader Performance



## ▲ ROPS and cab

### Key:

A. Loading height, truck loading position	12 ft. 7 in. (3.84 m)
B. Reach from center of swing mast	19 ft. 11 in. (6.07 m)
C. Reach from center of rear axle	23 ft. 8 in. (7.21 m)
D. Maximum digging depth	16 ft. 8 in. (5.07 m)
E. Digging depth (SAE):	
(1) 2-ft. (610 mm) flat bottom	16 ft. 6 in. (5.03 m)
(2) 8-ft. (2440 mm) flat bottom	15 ft. 7 in. (4.74 m)
F. Ground clearance, minimum	13 in. (330 mm)
G. Bucket rotation	160 or 180 degrees
H. Transport height	12 ft. 1 in. (3.68 m)
I. Overall length, transport	23 ft. 4 in. (7.11 m)
J. Stabilizer width - transport	7 ft. 8 in. (2.34 m)
K. Stabilizer spread - operating	9 ft. 10 in. (3.00 m)
L. Stabilizer overall width - operating	11 ft. 4 in. (3.45 m)
M. Width over tires	85 in. (2.15 m)

### Backhoe Standard Dipperstick\*

### Extendable Dipperstick

Retracted	Extended
12 ft. 1 in. (3.69 m)	15 ft. (4.58 m)
19 ft. 3 in. (5.87 m)	23 ft. 11 in. (7.29 m)
23 ft. (7.01 m)	27 ft. 8 in. (8.43 m)
15 ft. 11 in. (4.86 m)	20 ft. 10 in. (6.34 m)
15 ft. 11 in. (4.86 m)	20 ft. 8 in. (6.30 m)
14 ft. 10 in. (4.51 m)	20 ft. (6.09 m)
13 in. (330 mm)	13 in. (330 mm)
160 or 180 degrees	160 or 180 degrees
12 ft. 11 in. (3.94 m)	12 ft. 11 in. (3.94 m)
23 ft. (7.01 m)	23 ft. (7.01 m)
7 ft. 8 in. (2.34 m)	7 ft. 8 in. (2.34 m)
9 ft. 10 in. (3.00 m)	9 ft. 10 in. (3.00 m)
11 ft. 4 in. (3.45 m)	11 ft. 4 in. (3.45 m)
85 in. (2.15 m)	85 in. (2.15 m)

## BACKHOE PERFORMANCE

Digging force, bucket cylinder (power dig position)	11,100 lb. (49.5 kN)	11,230 lb. (49.9 kN)	11,230 lb. (49.9 kN)
Digging force, crowd cylinder	7600 lb. (33.8 kN)	8390 lb. (37.0 kN)	5430 lb. (24.2 kN)
Swing arc	180 degrees	180 degrees	180 degrees
Operator control	Two levers	Right foot treadle	Right foot treadle
Bucket positions	8 or 17 deg. rollback	8 or 18 deg. rollback	12 or 21 deg. rollback
Stabilizer angle rearward	14.5 degrees	14.5 degrees	14.5 degrees
Lifting capacity, maximum	6000 lb. (2700 kg)	6400 lb. (2900 kg)	3200 lb. (1450 kg)
Leveling angle	13 degrees	13 degrees	13 degrees

\*Backhoe specifications are with 24-in. x 8.8 cu. ft. (610 mm x 0.25 m<sup>3</sup>) bucket.

