



# 570B

## MOTOR GRADER



Model shown may include options

**SAE Net  
Horsepower**

90 hp  
(67 kW)

**Transmission**

Direct Drive  
Power Shift

**SAE  
Operating  
Weight**

20,225 lb.  
(9174 kg)

## ENGINE

John Deere engineered and manufactured six-cylinder diesel engine. Replaceable wet-type cylinder liners ensure superior heat dissipation, longer engine life. High-strength alloy heads include replaceable valve seat inserts. John Deere engines are designed and manufactured with time-proven industry standard features that provide reliable service and long life.

**Engine:** John Deere 6059D  
 Rated power at 2300 rpm.....90 SAE net hp (67 kW)  
 .....95 SAE gross hp (71 kW)  
 Number of cylinders.....6  
 Displacement.....359 cu. in. (5.884 L)  
 Fuel consumption, typical  
 [depending on duty cycle].....2.4 to 3.1 gal./hr. [9 to 11.7 L/h]  
 Net torque at 1300 rpm  
 [22% torque rise].....250 lb.-ft. (339 Nm)  
 Lubrication.....pressure system w/full flow filter and cooler  
 Aspirated air cleaner with restriction  
 indicator.....dual element, dry  
 Electrical system.....24 volt with 42-amp [1120 W] alternator  
 Batteries.....two 12-volt with 180-minute reserve capacity

## TRANSMISSION

Direct drive, planetary power shift transmission with modulated shift on-the-go speed selections in all eight forward and four reverse gears. There are five working speeds below 9 mph (15 km/h). Standard equipment also includes an inching pedal and tow disconnect.

## TRAVEL SPEEDS

(At 2300 engine rpm with 13.00-24 tires and no tire slip)

Shift Lever Position	Forward		Reverse	
	mph	(km/h)	mph	(km/h)
1	2.0	3.2	2.5	4.0
2	2.9	4.7	3.5	5.6
3	4.5	7.2	5.5	8.9
4	5.8	9.3	7.1	11.4
5	7.6	12.2		
6	9.8	15.8		
7	12.8	20.6		
8	21.6	34.8		

## FINAL DRIVE

Inboard-mounted planetary final drives are sealed in cool, filtered oil. The operator-controlled differential lock/unlock system allows the differential to easily be locked for maximum traction, or unlocked for maneuverability in tight turns. One and three quarter-inch (45 mm) pitch tandem drive chains are sized for long life.

## BRAKES

Foot-operated hydraulic wet-disk power brakes are sealed in cool, filtered oil. They're self-adjusting and maintenance free. Standard equipment also includes a hand-operated, mechanical dry-disk parking brake. Both independent braking systems are effective on all four tandem wheels.

## FRONT AXLE

Heavy-duty, welded box construction  
 Front axle oscillation (total).....30 degrees  
 Wheel lean (each direction).....20 degrees

## STEERING

A John Deere innovation – all-hydraulic power frame articulation provides maximum maneuverability and productivity. Crab steering reduces side drift, positions the tandems on firm ground and increases sideslope stability.

Frame articulation (both right and left).....22 degrees  
 Minimum turning radius.....18 ft. (5.49 m)

## HYDRAULICS

The closed-center hydraulic system uses a pressure-controlled variable-displacement single hydraulic pump. Integral hydraulic control valve lockouts eliminate cylinder drift. O-ring face seal and fittings eliminate hydraulic leaks.

Hydraulic pump.....3.0 cu. in. (50 cm<sup>3</sup>)  
 Rated flow at 2300 engine rpm.....27 gpm (102 L/min.)

## TIRES AND RIMS

Tire Size	Wheel Tread		Overall Width		Ground Clearance (Front Axle)
	Front	Rear	Front	Rear	
13.00-24 8 in. rim (203 mm)	78.75 in. (2.00 m)	81.125 in. (2.06 m)	7 ft. 10.75 in. (2.41 m)	7 ft. 10.25 in. (2.89 m)	25.5 in. (652 mm)
15.5-25 13 in. rim (330 mm)	81.58 in. (2.07 m)	83.75 in. (2.13 m)	8 ft. 3.75 in. (2.53 m)	8 ft. 3.25 in. (2.52 m)	22.9 in. (582 mm)

## CAPACITIES

Fuel tank.....50 gal. (189 L)  
 Cooling system.....5.6 gal. (21.1 L)  
 Engine lubrication, including filter.....12 qt. (11 L)  
 Transmission and hydraulic system (refill).....14 gal. (53 L)  
 Tandem housings (each).....5 gal. (19 L)  
 Circle gearbox.....1.5 qt. (1.4 L)

## OPERATING WEIGHTS

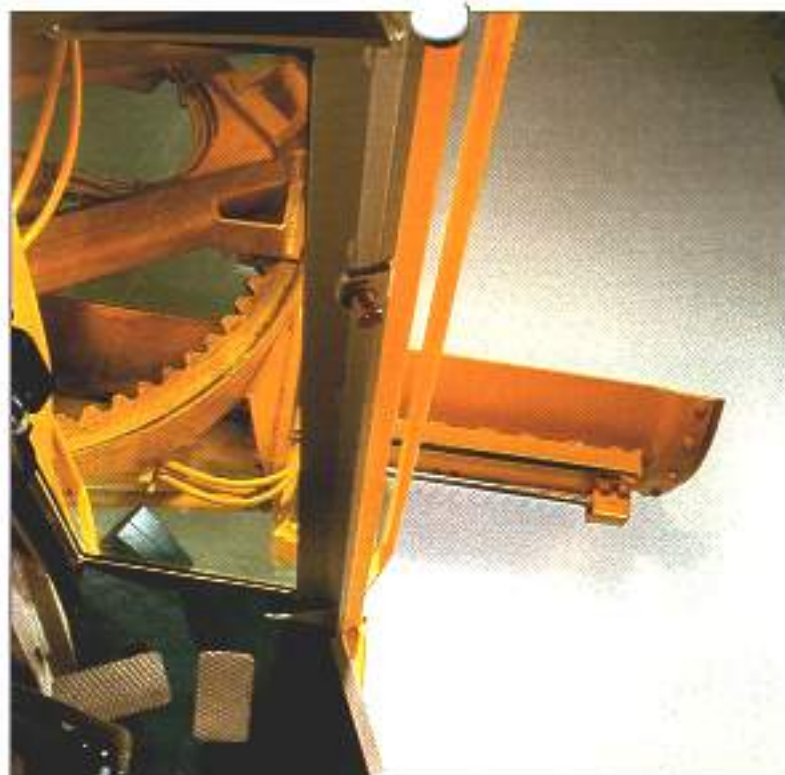
SAE	On Front Wheels	On Rear Wheels	Total
With standard equipment.....	5,725 lb. (2597 kg)	14,500 lb. (6577 kg)	20,225 lb. (9174 kg)
With standard equipment and scarifier.....	6,775 lb. (3073 kg)	14,328 lb. (6449 kg)	21,103 lb. (9572 kg)
With standard equipment and wheel weights.....	5,725 lb. (2597 kg)	15,100 lb. (6849 kg)	20,825 lb. (9446 kg)
With standard equipment, scarifier and wheel weights.....	6,775 lb. (3073 kg)	14,928 lb. (6771 kg)	21,703 lb. (9844 kg)

Typically equipped operating weights range up to 22,528 lb. (10,219 kg)



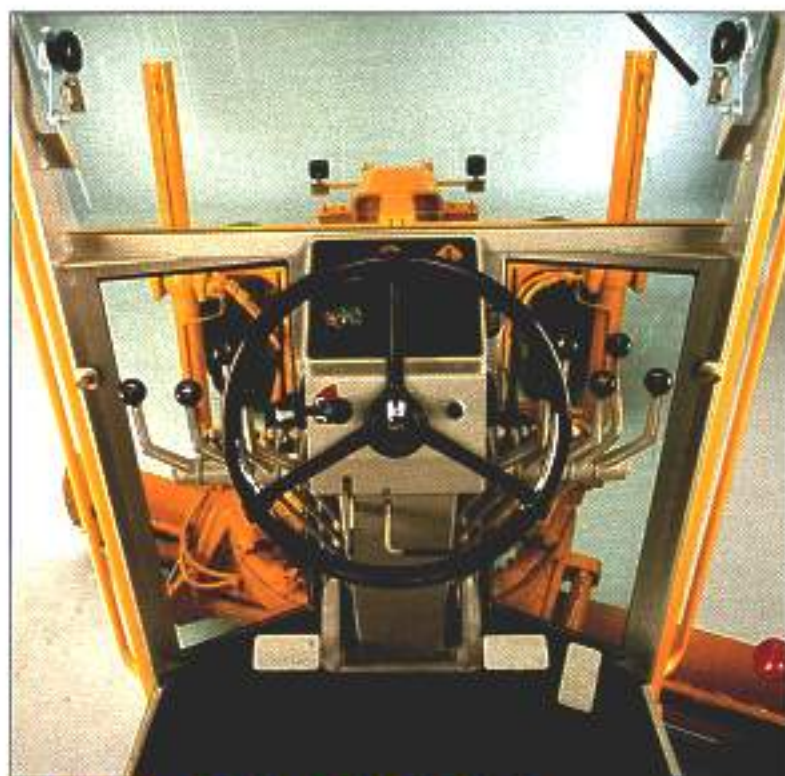
### **MANEUVERABILITY**

All 570Bs are manufactured with articulated frames, long blade base, all-hydraulic blade control, full-function blade positioning and tandem drives. The result is a highly-productive general-purpose machine, the most maneuverable "confined space" motor grader available in the industry.



### **VISIBILITY**

Excellent visibility and low noise result in a comfortable and productive work environment. Unmatched visibility allows the operator to precisely locate and control blade position.



### **CONTROL CONSOLE**

Industry standard control locations with independently adjustable console and steering wheel provide the most comfortable operating position. The electronic monitoring system supplies routine operational information and warns of impending critical function problems before they become catastrophic.



### **DURABILITY**

All power train, hydraulic, and structural components are specifically designed to provide long life. The inboard-mounted, all-hydraulic wet-disk brakes run in cooled and filtered oil for increased durability. Brakes require no maintenance and assure swerve-free stopping. Heavy-duty constructed moldboard assures long life.

## SCARIFIER

V-type manual three-pitch position with hydraulic float.

Width of cut	46 in. (1.17 m)
Number of teeth	5 standard, 9 optional
Lift above ground	22.5 in. (575 mm)
Maximum penetration	8.75 in. (222 mm)
Shank size	1 x 3 in. (25 x 76 mm)

## BULLDOZER

Mounts on scarifier linkage; can be angled 22 degrees right or left by using frame articulation.

Length	93 in. (2.36 m)
Height	23.5 in. (597 mm)
Lift above ground	27 in. (686 mm)
Penetration	4 in. (102 mm)

### ADDITIONAL STANDARD EQUIPMENT

<b>Engine/Power Train:</b>	Blade pitch	Outside rearview (2)	Transmission oil filter restriction warning light
Air precleaner	Blade sideshift	Seat belt	Transmission oil pressure warning light
Air freeze	Circle rotate	Switch-operated differential lock control	Transmission oil temperature warning light with audible alarm
Electric fuel shutoff	Circle side shift	Tilt steering	Indicator lights
Fan guard	Frame articulate	Tinted glass	Differential lock engaged
Fuel filter	Wheel lean	<b>Instruments and Indicators:</b>	Turn signal and hazard warning
Transmission tow disconnect	Hydraulic differential lock	Dual level monitor system	Gauges
15.00-24, 8 PR, G2 tires	Hydraulic oil cooler	Alternator voltage warning light	Articulation indicator
<b>Electrical System:</b>	Hydraulic pump, 3.0 cu. in. (50 cu. cm), 32.7 gpm (102 Lpm)	Brake pressure warning light with audible alarm	Fuel
40 amp (1120 watt) alternator	Power brakes	Engine air cleaner restriction warning light	Hourmeter
Batteries with 180 min. (625 CCA) reserve capacity	Power steering	Engine coolant temperature warning light with audible alarm	<b>Moldboard:</b>
Horn	<b>Operator's Station:</b>	Engine oil pressure warning light with audible alarm	12 ft. x 22 in. (3.66 m x 559 mm) moldboard with .62 x 6 in. (16 x 152 mm) through hardened Dura-Max cutting edge
Lights	Adjustable front console	Park brake engaged (in gear) warning light with audible alarm	
Driving (2)	Cushioned vinyl seat		
Flashing and turn signals (4)	Front windshield wiper		
Stop and tail (2)	Instrument lights		
Reverse warning alarm	Interior light		
<b>Hydraulics:</b>	Low profile cab with ROPS		
Controls	Mirrors		
Blade lift with float	Interior rearview		

### OPTIONAL OR SPECIAL EQUIPMENT WITH APPROXIMATE WEIGHTS

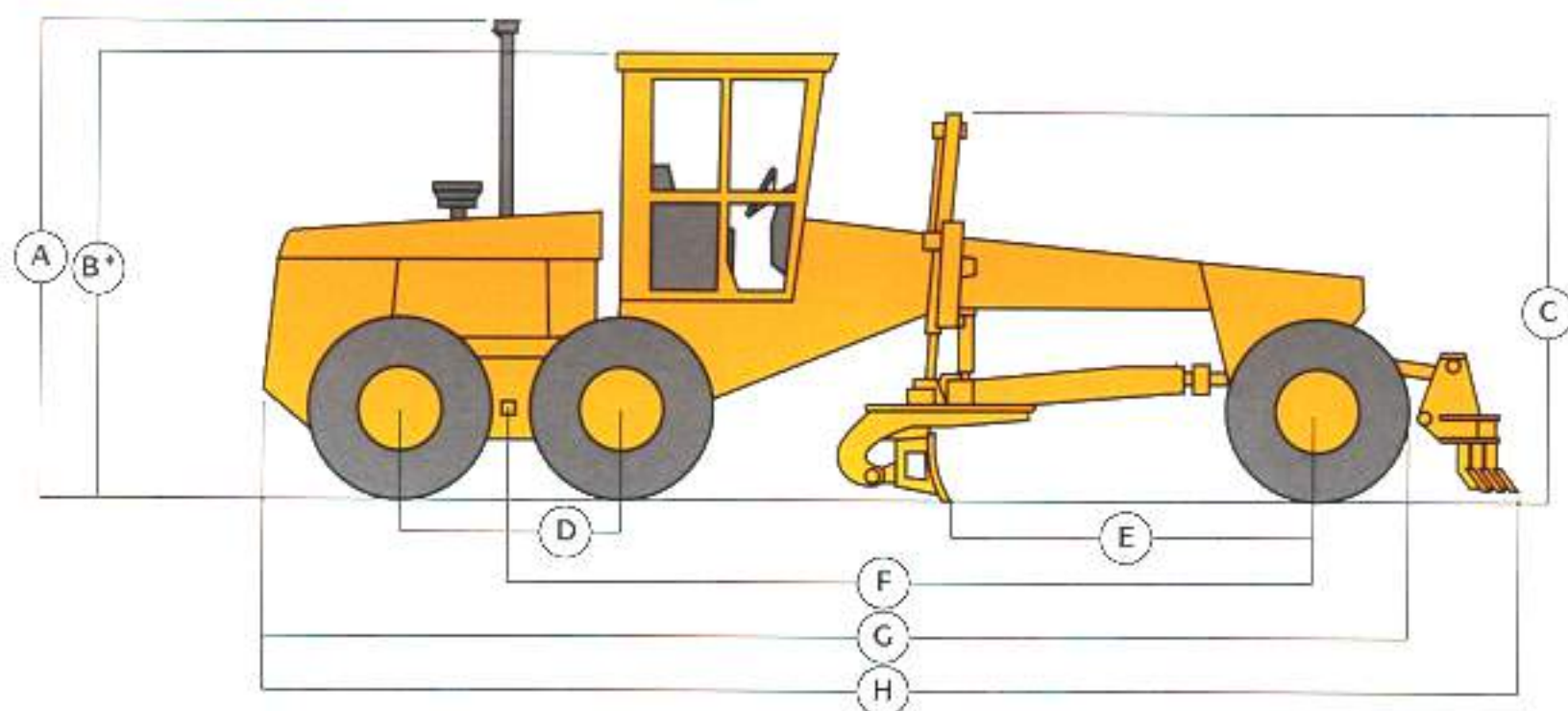
(Add these weights to SAE standard equipment operating weight to obtain total operating weight.)

	lb.	kg		lb.	kg
<b>Engine/Power Train:</b>			<b>Hydraulics:</b>		
Altitude Compensating Turbocharger	42	19	Auxiliary function valve for front-mounted equipment	3	1
Cold weather ether starting aid	3	1	Hydraulics for front-mounted equipment	68	30
Coolant heater	2	1	<b>Moldboards:</b>		
<b>Operator's Station:</b>			12 ft. x 22 in. (3.66 m x 559 mm) moldboard with .75 x 6 in. (19 x 152 mm) through hardened Dura-Max cutting edge	100	45
Cab, full height with ROPS	82	37	Extensions, 2 ft. (610 mm) right or left (less cutting edge)	185	100
Canopy, low profile with ROPS	-226	-103	Overlay end bits, 6 in. (152 mm), 1 pair	62	28
Control conversion (moves LH blade control to RH side)	2	1	<b>Attachments:</b>		
Defroster fan	4	2	Bottom guard	160	73
Defroster fans (dual)	8	4	Engine side shields	92	42
Floor mat	9	4	Front-mounted dozer blade - 93 x 23.5 in. (2.36 m x 597 mm)	650	295
Heater - 20,000 Btu/hr (5.9 kW)	16	7	4.0 in. (102 mm) dig below ground		
Heater - 40,000 Btu/hr (11.7 kW)	31	14	27.0 in. (686 mm) lift above ground		
Seat belt, 3 in. (76 mm)	3	1	Front-mounted scarifier with 5 teeth	878	398
Seat, deluxe suspension vinyl with armrests	90	41	Toolbox	14	6
Seat, deluxe suspension cloth with armrests	90	41	<b>Tires:</b>		
Windshield washers, front and rear	3	1	13.00-24, 10 PR, G2 tires on 8-in. 3-piece rims	35	16
Wipers/washers, lower front windows	7	3	15.5-25, 8 PR, L2 tires on 13-in. rims	323	146
Wiper, rear window	5	2			
<b>Electrical System:</b>					
Beacon wiring and switch	2	1			
Blade lights (2 mounted under cab)	4	2			
Work lights (2 front, 2 rear)	8	4			
24 volt to 12 volt converter	3	1			

### ADDITIONAL AVAILABLE EQUIPMENT\*

Automatic blade controls	Fenders	Slopers	Windrow eliminators
Compactors	Grade and slope indicators	Snowplows and wings	* See your John Deere dealer for further information.
Dozer blades	Push blocks	Tire chains	

## DIMENSIONS



### Key:

A	Height to top of exhaust	10 ft. 1.5 in. (3.09 m)
B	Height to top of cab	10 ft. 2 in. (3.09 m)
C	Height to top of blade lift cylinders	8 ft. 3.5 in. (2.53 m)
D	Tandem axle spacing	4 ft. 8.75 in. (1.44 m)
E	Bladebase	7 ft. 8 in. (2.34 m)
F	Wheelbase	17 ft. 4 in. (5.28 m)
G	Overall length	24 ft. 4.5 in. (7.43 m)
H	Overall length with scarifier	26 ft. 8.5 in. (8.14 m)

\*Add 8.3 in. (210 mm) for full-height cab  
Add 0 in. (0 mm) for low profile canopy with ROPS

## BLADE FUNCTION

All-hydraulic, industry-preferred hand-lever placement of blade function controls (standard equipment). Blade lift controls include a float position. Conversion from two-hand to one-hand control is easily accomplished. Five blade lift arm positions provide excellent blade positioning. Blade components are fully adjustable.

### BLADE RANGE

Lift above ground	13 in. (330 mm)
Blade side shift, right	26.75 in. (679 mm)
left	31.25 in. (794 mm)
Shoulder reach outside wheels (frame straight):	
Right	71.5 in. (1.82 m)
Left	77.25 in. (1.96 m)
Pitch at ground line	32 deg. forward

## MAINFRAME

Welded box construction.	
Section size, maximum	16.5 x 8 in. (419 x 203 mm)
minimum	12.5 x 8 in. (318 x 203 mm)
Weight per ft., maximum	99 lb.-ft. (147.3 kg/m)
minimum	91 lb.-ft. (135.4 kg/m)

## DRAWBAR

Welded box construction with universal swivel.

## CIRCLE

Welded construction, heat-treated for strength.

Circle diameter	54 in. (1.37 m)
Rotation	360 degrees
Drive	hydraulic motor and worm gear with positive position lock
Sideshift, right	27.0 in. (686 mm)
left	28.5 in. (724 mm)

## MOLDBOARD

High-strength, wear-resistant, high-carbon steel.

Length	12 ft. (3.66 m)
Height	22 in. (559 mm)
Thickness	0.62 in. (16 mm)

## CUTTING EDGE

Dura-Max® through-hardened steel edge.

Thickness and width	0.62 x 6.0 in. (16 x 152 mm)
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## THE JDAvantEDGE

JDAvantEdge is a wealth of support programs, parts systems and dealer resources, all designed to give you the edge. This package of special benefits is a major reason why John Deere offers the "best value" for your equipment dollar.

**Best parts support** – Twelve regional parts depots in North America and others around the world put parts support near your job no matter where in the world it is.

A computerized FLASH™ parts locating system linking these depots to dealerships can find out-of-stock parts in a hurry and get them into your hands fast. Usually within 24 hours.

**Best service backup** – Dealer service technicians are regularly schooled, at our modern facility in Davenport, Iowa, or by professionals in the field, to diagnose quickly and repair efficiently.

If they're stumped, a phone call to DTAC (Dealer Technical Assistance Center) puts them in touch with a staff of pros at the factory who help them find a solution quickly.

**Best dealers** – Your John Deere dealer is an important contributor to the JDAvantEdge. He or she is committed to being the best equipment supplier you can work with.

This is a dollars-and-cents commitment in parts inventory, in service facilities, in field service trucks. It's a sweat-and-blood commitment in dedicated, skilled and highly

trained and motivated personnel in each and every department at the dealership.

But what sets John Deere dealers apart from all the rest is something more, a factor somewhat difficult to measure ... a caring attitude, and a sincere desire to be the best at meeting the needs of each individual customer.

**John Deere Finance Plans** – Whether you rent, lease or buy John Deere equipment, your dealer can explain the John Deere options available. One-stop options that let you free up operating capital, keep other lines of credit open. More solid benefits of the JDAvantEdge.

**Best protection** – In addition to the new equipment warranty that meets or exceeds the competition, SECURE® extended coverage, an optional service product for John Deere equipment, is available for repair coverage after the warranty concludes. Full machine or power train coverage is available for a variety of time periods to meet your needs. Consult your dealer for availability and details.

**Quality manufacturing** – This machine was manufactured at the John Deere Davenport Works, Davenport, Iowa, which has been registered to the International Organization for Standardization (ISO) standard 9001. The Davenport Works has been audited and recognized for its excellence in quality systems by the Quality Management Institute (QMI) and the Japanese Machinery & Metal Inspection Institute (JMI).

**MILLER**  
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Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35° API gravity. No derating is required up to 5000 feet (1500 m) altitude. Optional altitude compensating turbocharger (ACT) recommended for no derating at altitudes 5000 to 10,000 feet (1500 to 3050 m). Gross power is without cooling fan.



Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with 13.00 24, 8-PR tubeless tires, 12-ft. (3.66 m) moldboard with .62 x 6-in. (16 x 152 mm) cutting edge, and standard equipment. Weights include lubricants, coolants, full fuel tank and 175-lb. (79 kg) operator.

