



# Wheel Loader 921B

## ENGINE

Model ..... Cummins M11  
 Cylinders ..... 6  
 Bore/Stroke ..... 4.92" x 5.79"  
 Displacement ..... 661 in<sup>3</sup>  
 Power  
 SAE Gross ..... 270 @ 2100 rpm  
 SAE Net ..... 248 @ 2100 rpm  
 Maximum torque  
 SAE Gross ..... 950 lb-ft @ 1300 rpm  
 SAE Net ..... 929 lb-ft @ 1300 rpm

## DRIVELINE

4 forward/3 reverse speed full powershift transmission. Electric twist-grip range selector lever on steering column. Semi-automatic shifting for upshifts and downshifts. Single stage integral torque converter with 3-to-1 stall ratio. Torque proportioning axles with outboard planetaries and wet disc brakes.

### TRAVEL/WORK SPEEDS MPH

	1st	2nd	3rd	4th
Forward ..	5.1	8.5	18	25.2
Reverse ...	5.1	8.5	18	—

NOTE: Engine at full throttle, 26.5 x 25 tires.

## OPERATOR ENVIRONMENT

Front cab glass areas and sloped rear hood offer maximum visibility to work area. Easy-to-reach servo loader controls require low effort and short throw, fingertip operation. Five loader control options are available to customize operation. An audible alarm, multi-level warning lights and liquid crystal bar graphs alert operator to individual function status. Transmission shifter features lever-controlled forward/ reverse, with twist-grip range selection. Instrumentation monitors all individual machine functions. Optional analog gauges include tachometer, voltmeter, engine oil pressure, transmission oil temperature. A padded adjustable steering wheel and suspension seat increase operator

## HYDRAULIC SYSTEM

Steering pump capacity ..... 68 gpm @ 2100 rpm @ 2850 psi  
 Loader pump capacity ..... 106 gpm @ 2100 rpm @ 2850 psi  
 System relief pressure ..... 2850 psi  
 Loader control valve: ..... Sectional, open-center with positive low pressure regeneration for bucket dump. Two, three or four-spool with one, two or three loader control lever options for lift, dump and auxiliary.

## ELECTRICAL SYSTEM

Voltage ..... 24 volt, negative ground  
 Alternator ..... 70 amp  
 Batteries (2) ..... 600 cold-cranking amps @ 0° F

## SERVICE CAPACITIES

Cooling system ..... 42 qt  
 Fuel tank ..... 104 gal  
 Engine crankcase ..... 36 qt  
 Crankcase and filter ..... 39 qt  
 Transmission ..... 46 qt  
 Service (w/filter) ..... 30 qt  
 Total hydraulic system ..... 60.3 gal  
 Hydraulic reservoir ..... 32 gal  
 Axles (each)  
 Differential (1) ..... 38.4 qt  
 Each Hub (2) ..... 14.4 qt  
 Total ..... 67.2 qt

## LOADER

A 34,178 lb full turn tipping load means that the 921B can easily handle 3,400 lb per cubic yard of material.

### CYCLE TIMES

	Seconds
Raise (with rated bucket load) .....	6.2
Dump (with rated bucket load) ....	1.5
Lower (empty, power down) .....	4.9
Lower (empty, float down) .....	3.7

## STEERING/ARTICULATION

Stop-to-stop turning ratio is 4.1 turns. Outside turning radius of tires is 20'2". 40° articulation.

## DIMENSIONS

Height to top of cab/canopy ..... 11'9"  
 Wheelbase ..... 134"  
 Hinge pin height ..... 14'1"  
 Overall height to top of raised bucket ..... 18'6"  
 Ground clearance ..... 17.5"  
 Tread width ..... 87"  
 Width over tires ..... 115.6"

Dimensions are for standard loader with 26.5 x 25 L3 20PR tires and 4.75 yd<sup>3</sup> bucket.

## CYLINDERS

	Diameter	Stroke	Rod
<b>LOADER</b>			
Lift (2) .....	7.0"	34.16"	4"
Dump (1) ....	8.0"	29.34"	4"
<b>STEERING (ARTICULATION)</b>			
(2) .....	4"	20.34"	2"

## PERFORMANCE DATA

Spec loader is a fully serviced unit that includes all standard equipment, front and rear fenders, 26.5 x 25, L3 20PR tires, ROPS cab w/ heater & A/C, 4800 lb counterweight, optional lighting package and 175 lb operator.

### BUCKET

#### CONFIGURATION

	4.75 YD <sup>3</sup>				5.00 YD <sup>3</sup>		
	Bucket Only	Bucket w/teeth	Bucket w/bolt-on edge	Bucket w/teeth & segments	Bucket Only	Bucket w/teeth	Bucket w/bolt-on edge
SAE Heaped capacity	4.75 yd <sup>3</sup>	4.75 yd <sup>3</sup>	5.0 yd <sup>3</sup>	5.0 yd <sup>3</sup>	5.00 yd <sup>3</sup>	5.00 yd <sup>3</sup>	5.25 yd <sup>3</sup>
SAE Struck capacity	3.81 yd <sup>3</sup>	3.81 yd <sup>3</sup>	4.02 yd <sup>3</sup>	4.02 yd <sup>3</sup>	4.38 yd <sup>3</sup>	4.38 yd <sup>3</sup>	4.60 yd <sup>3</sup>
Bucket weight	3,537 lb	3,855 lb	4,172 lb	4,335 lb	3,698 lb	4,335 lb	4,333 lb
Bucket width	120"	122.3"	120"	122.3 "	120"	122.3 "	120"
Loader clearance circle, bucket at carry	44'4"	45'1"	44'6"	45'1"	44'4"	45'1"	44'7"
SAE Breakout force	50,275 lb	49,583 lb	46,391 lb	49,197 lb	49,154 lb	49,289 lb	45,398 lb
SAE Tipping load straight	42,661 lb	42,241 lb	41,837 lb	41,634 lb	42,843 lb	42,095 lb	42,011 lb
SAE Tipping load at 40°turn	34,108 lb	33,692 lb	33,295 lb	33,094 lb	34,178 lb	33,437 lb	33,358 lb
SAE Operating load	17,054 lb	16,846 lb	16,647 lb	16,547 lb	17,089 lb	16,719 lb	16,679 lb
SAE Operating weight*	50,547 lb	50,864 lb	51,189 lb	51,344 lb	50,708 lb	51,344 lb	51,342 lb
Overall length	28'1"	29'0"	28'5"	29'0"	28'2"	29'0"	28'6"
Dump clearance @ full height - 45°	10'4"	9'8"	10'1"	9'8"	123.2"	115.7"	120"
Bucket reach @ full height - 45°	43.2"	49.0"	44.5"	49.0"	43.9"	49.0"	45.2"
Bucket reach @ 7' - 45°	68.8"	71.1"	68.9"	71.1"	69.2"	71.1"	69.3"
Dig depth below groundline	1.2"	2.8"	2.4"	2.8"	1.2"	2.8"	2.5"

\*For selected option changes, adjust operating weight and tipping loads as shown in the table below.

## SELECTED OPTIONS

SELECTED OPTIONS	Operating Weight Adjustments		Tipping Load Adjustments	
	Straight		40° Turn	
26.5 x 25 L2 20PR (dirt).....	-452 lb.....		-1,014 lb	
26.5 x 25 L3 20PR (sand, firm surface).....	0.....		0	
26.5 x 25 L4 20PR (rock).....	+1,164 lb.....		+1,387 lb	
26.5 x 25 L5 20PR (abrasive rock).....	+1,592 lb.....		+2,166 lb	
26.5 x R25 XRD1A <sup>®</sup> (rock).....	+1,452 lb.....		+1,090 lb	
26.5 x R25 XHA TL <sup>®</sup> (sand, firm surface).....	+460 lb.....		+382 lb	
3300 lb counterweight.....	-1,500 lb.....		-2,659 lb	
ILO 4800 lb counterweight				
ROPS canopy.....	-295 lb.....		-221 lb	

NOTE: Ballast is not recommended.

### CASE CORPORATION

700 STATE STREET  
RACINE, WI 53404 U.S.A.

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### CASE CANADA CORPORATION

3350 SOUTH SERVICE ROAD  
BURLINGTON, ON L7N 3M6 CANADA

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