

6620, Sidehill 6620 7720 and 8820 Combines



JOHN DEERE

TECHNICAL MANUAL 6620, Sidehill 6620 7720 and 8820 Combines

TM1202 (01JAN88) English

John Deere Harvester Works
TM1202 (01JAN88)

LITHO IN U.S.A.
ENGLISH



6620, SIDEHILL 6620, 7720 AND 8820 COMBINES

TECHNICAL MANUAL TM-1202 (Jan-88)

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All information, illustrations and specifications contained in this technical manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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Section 10 GENERAL

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Group 00 GENERAL SPECIFICATIONS

SERIAL NUMBERS

Serial Number Unit	Location	Serial Number Unit	Location
Separator... (-1982)	Rear left hand upright	Cutting Platform and Pickup Platform	Left-hand side of main frame
(1983-)	Near right hand side of tool box		
Engine	Front side of engine block on water jacket directly above starter	Corn Head	Lower right-hand side on bulk-head frame
Sundstrand Hydrostatic Unit ...	Under pump section	Row-Crop Head	Left-hand side end sheet of main frame
Eaton Hydrostatic Unit	Side of motor section		
Cam Lobe 4-Wheel Drive Motor	Top of motor		
Planetary 4-Wheel Drive Motor	None		

**GROUND SPEED IN MPH (km/h) 6620 COMBINE (Posi-Torq Drive)
10 TO 82 AND 11 TO 90 RATIO FINAL DRIVES**

Size	Tire		Ply	1st Gear	2nd Gear	3rd Gear	4th Gear	Reverse Gear
	Type							
23.1-26	Cleat	8, 10		.7 to 1.7	1.6 to 3.9	2.9 to 7.2	6.6 to 16.5	1.3 to 3.2
				(1.1 to 2.7)	(2.6 to 6.3)	(4.7 to 11.6)	(10.6 to 26.6)	(2.1 to 5.2)
23.1-26	Low Profile	8		.7 to 1.7	1.5 to 3.8	2.8 to 6.9	6.4 to 16.0	1.2 to 3.1
				(1.1 to 2.7)	(2.4 to 6.1)	(4.5 to 11.1)	(10.3 to 25.7)	(2.1 to 5.0)
23.1-26	Cane & Rice	8,10		.7 to 1.8	1.7 to 4.2	3.0 to 7.6	7.0 to 17.4	1.4 to 3.4
				(1.1 to 2.9)	(2.7 to 6.8)	(4.8 to 12.2)	(11.3 to 28.0)	(2.3 to 5.5)
28.1-26	Cleat	10		.7 to 1.8	1.6 to 4.0	2.9 to 7.3	6.7 to 16.9	1.3 to 3.3
				(1.1 to 2.9)	(2.6 to 6.4)	(4.8 to 11.8)	(10.8 to 27.2)	(2.1 to 5.3)
28.1-26	Cane & Rice	10		.7 to 1.8	1.7 to 4.2	3.0 to 7.6	7.0 to 17.4	1.4 to 3.4
				(1.1 to 2.9)	(2.7 to 6.8)	(4.8 to 12.2)	(11.3 to 28.0)	(2.3 to 5.5)

10 TO 95 AND 11 TO 104 RATIO FINAL DRIVES

Size	Tire or Tracks		Ply	1st Gear	2nd Gear	3rd Gear	4th Gear	Reverse Gear
	Type							
24.5-32	Cleat	10		.7 to 1.7	1.6 to 3.9	2.8 to 7.1	6.5 to 16.3	1.2 to 3.2
				(1.1 to 2.7)	(2.4 to 6.3)	(4.5 to 11.4)	(10.5 to 26.2)	(2.1 to 5.2)
24.5-32	Cane & Rice	10		.7 to 1.7	1.6 to 4.0	2.9 to 7.3	6.7 to 16.8	1.3 to 3.3
				(1.1 to 2.7)	(2.6 to 6.4)	(4.7 to 11.8)	(10.8 to 26.2)	(2.1 to 5.3)
Tracks				.3 to .8	.7 to 1.8	1.3 to 3.3	3.0 to 7.6	.6 to 1.5
				(.5 to 1.3)	(1.1 to 2.9)	(2.1 to 5.3)	(4.8 to 12.2)	(1.0 to 2.4)

**GROUND SPEED IN MPH (km/h) 6620 COMBINE (Hydrostatic Drive)
10 TO 82 AND 11 TO 90 RATIO FINAL DRIVES**

Tire			1st Gear	2nd Gear	3rd Gear	4th Gear
Size	Type	Ply				
23.1-26	R1 Cleat	8, 10	0 to 1.7 (0 to 2.7)	0 to 3.8 (0 to 6.2)	0 to 6.9 (0 to 11.3)	0 to 16.0 (0 to 26.2)
23.1-26	R3 Low Profile	8	0 to 1.6 (0 to 2.6)	0 to 3.7 (0 to 6.0)	0 to 6.7 (0 to 10.9)	0 to 15.4 (0 to 25.1)
23.1-26	R2 Cane & Rice	8, 10	0 to 1.7 (0 to 2.8)	0 to 4.0 (0 to 6.6)	0 to 7.3 (0 to 11.9)	0 to 16.8 (0 to 28.0)
28.1-26	R1 Cleat	10	0 to 1.7 (0 to 2.8)	0 to 3.9 (0 to 6.3)	0 to 7.1 (0 to 11.6)	0 to 16.3 (0 to 26.7)
28.1-26	R2 Cane & Rice	10	0 to 1.7 (0 to 2.8)	0 to 4.0 (0 to 6.6)	0 to 7.3 (0 to 11.9)	0 to 16.8 (0 to 27.4)

10 TO 95 AND 11 TO 104 RATIO FINAL DRIVES

Tire or Tracks			1st Gear	2nd Gear	3rd Gear	4th Gear
Size	Type	Ply				
24.5-32	R1 Cleat	10	0 to 1.7 (0 to 2.7)	0 to 3.9 (0 to 6.3)	0 to 7.1 (0 to 11.4)	0 to 16.3 (0 to 26.2)
24.5-32	R2 Cane & Rice	10	0 to 1.7 (0 to 2.7)	0 to 4.0 (0 to 6.4)	0 to 7.3 (0 to 11.8)	0 to 16.8 (0 to 27.0)
Tracks			0 to .8 (0 to 1.3)	0 to 1.8 (0 to 2.9)	0 to 3.3 (0 to 5.3)	0 to 7.6 (0 to 12.2)

**GROUND SPEED CONTROL RANGE IN MPH (km/h)
SIDEHILL 6620 COMBINE**

Tire			1st Gear	2nd Gear	3rd Gear	4th Gear
Size	Type	Ply Rating				
23.1-26	R1 Cleat	10	0 to 1.7 (0 to 2.7)	0 to 4.0 (0 to 6.4)	0 to 7.3 (0 to 11.8)	0 to 16.7 (0 to 26.9)
23.1-26	R2 Cane & Rice	10	0 to 1.8 (0 to 2.9)	0 to 4.2 (0 to 6.8)	0 to 7.6 (0 to 12.2)	0 to 17.6 (0 to 28.3)

**GROUND SPEED CONTROL RANGE IN MPH (km/h)
WITH 4-WHEEL DRIVE ENGAGED**

SIDEHILL 6620, 6620 AND 7720 COMBINES

(HYDROSTATIC DRIVE)

Tire or Tracks Size	Type	Ply	1st Gear	2nd Gear	3rd Gear	4th Gear
23.1-26	R1 Cleat	8	0 to 1.5 (0 to 2.4)	0 to 3.1 (0 to 5.0)	0 to 4.8 (0 to 7.7)	0 to 7.9 (0 to 12.7)
23.1-26	R2 Cane & Rice	10	0 to 1.6 (0 to 2.6)	0 to 3.2 (0 to 5.1)	0 to 5.1 (0 to 8.2)	0 to 8.3 (0 to 13.4)
24.5-32	R1 Cleat	10	0 to 1.5 (0 to 2.4)	0 to 3.1 (0 to 5.0)	0 to 4.9 (0 to 7.9)	0 to 8.1 (0 to 13.0)
24.5-32	R2 Cane & Rice	10	0 to 1.5 (0 to 2.4)	0 to 3.2 (0 to 5.1)	0 to 5.0 (0 to 8.0)	0 to 8.4 (0 to 13.5)
28.1-26	R1 Cleat	10,12	0 to 1.5 (0 to 2.4)	0 to 3.2 (0 to 5.1)	0 to 5.0 (0 to 8.0)	0 to 8.3 (0 to 13.4)
28.1-26	R2 Cane & Rice	10,12	0 to 1.6 (0 to 2.6)	0 to 3.2 (0 to 5.1)	0 to 5.1 (0 to 8.2)	0 to 8.5 (0 to 13.6)
30.5-32	R1 Cleat	10	0 to 1.5 (0 to 2.4)	0 to 3.1 (0 to 5.0)	0 to 5.0 (0 to 8.0)	0 to 8.4 (0 to 13.5)
30.5-32	R2 Cane and Rice	10	0 to 1.5 (0 to 2.4)	0 to 3.2 (0 to 5.1)	0 to 5.0 (0 to 8.0)	0 to 8.4 (0 to 13.5)
Tracks			0 to .7 (0 to 1.1)	0 to 1.5 (0 to 2.4)	0 to 2.5 (0 to 4.0)	0 to 4.4 (0 to 7.1)

**GROUND SPEED IN MPH (km/h) 7720 COMBINE (Posi-Torq Drive)
10 TO 82 AND 11 TO 90 RATIO FINAL DRIVES**

Size	Tire		Ply	1st Gear	2nd Gear	3rd Gear	4th Gear	Reverse Gear
	Type							
23.1-26	Cleat		10	.7 to 1.7 (1.1 to 2.7)	1.6 to 3.9 (2.6 to 6.2)	2.9 to 7.2 (4.7 to 11.7)	6.6 to 16.5 (10.7 to 26.7)	1.3 to 3.2 (2.1 to 5.2)
23.1-26	Low Profile		8	.7 to 1.7 (1.1 to 2.7)	1.5 to 3.8 (2.4 to 6.1)	2.8 to 6.9 (4.5 to 11.1)	6.4 to 16.0 (10.3 to 25.7)	1.2 to 3.1 (2.0 to 5.0)
23.1-26	Cane & Rice		10	.7 to 1.8 (1.1 to 2.9)	1.7 to 4.2 (2.7 to 6.8)	3.0 to 7.6 (4.9 to 12.2)	7.0 to 17.4 (11.3 to 28.1)	1.4 to 3.4 (2.3 to 5.5)
28.1-26	Cleat		12	.7 to 1.8 (1.1 to 2.9)	1.6 to 4.0 (2.6 to 6.4)	2.9 to 7.3 (4.7 to 11.8)	6.7 to 16.9 (10.8 to 27.2)	1.3 to 3.3 (2.1 to 5.3)
28.1-26	Cane & Rice		12	.7 to 1.8 (1.1 to 2.9)	1.7 to 4.2 (2.7 to 6.8)	3.0 to 7.6 (4.8 to 12.2)	7.0 to 17.4 (11.3 to 28.0)	1.4 to 3.4 (2.3 to 5.5)

10 TO 95 AND 11 TO 104 RATIO FINAL DRIVES

Size	Tire or Tracks		Ply	1st Gear	2nd Gear	3rd Gear	4th Gear	Reverse Gear
	Type							
24.5-32	Cleat		10	.7 to 1.7 (1.1 to 2.7)	1.6 to 3.9 (2.6 to 6.3)	2.8 to 7.1 (4.5 to 11.4)	6.5 to 16.3 (10.5 to 26.2)	1.3 to 3.2 (2.1 to 5.2)
24.5-32	Cane & Rice		10	.7 to 1.7 (1.1 to 2.7)	1.6 to 4.0 (2.6 to 6.4)	2.9 to 7.3 (4.7 to 11.8)	6.7 to 16.8 (10.8 to 27.0)	1.3 to 3.3 (2.1 to 5.3)
30.5-32	Cleat		10	.7 to 1.7 (1.1 to 2.7)	1.6 to 3.9 (2.6 to 6.3)	2.9 to 7.2 (4.7 to 11.6)	6.6 to 16.4 (10.6 to 26.4)	1.3 to 3.2 (2.1 to 5.2)
30.5-32	Cane & Rice		10	.7 to 1.8 (1.1 to 2.9)	1.6 to 4.1 (2.6 to 6.7)	3.0 to 7.4 (4.9 to 11.9)	6.8 to 17.1 (11.0 to 27.8)	1.3 to 3.3 (1.8 to 5.3)
Tracks				.3 to .8 (.5 to 1.3)	.7 to 1.8 (1.1 to 2.9)	1.3 to 3.3 (2.1 to 5.3)	3.0 to 7.6 (4.8 to 12.2)	.6 to 1.5 (1.0 to 2.4)

**GROUND SPEED IN MPH (km/h) 7720 COMBINE (Hydrostatic Drive)
10 TO 82 AND 11 TO 90 RATIO FINAL DRIVES**

Tire			1st Gear	2nd Gear	3rd Gear	4th Gear
Size	Type	Ply				
23.1-26	R1 Cleat	10	0 to 1.7 (0 to 2.7)	0 to 3.8 (0 to 6.2)	0 to 6.9 (0 to 11.4)	0 to 16.0 (0 to 26.2)
23.1-26	R3 Low Profile	8	0 to 1.6 (0 to 2.6)	0 to 3.7 (0 to 6.0)	0 to 6.7 (0 to 10.9)	0 to 15.4 (0 to 25.1)
23.1-26	R2 Cane & Rice	10	0 to 1.7 (0 to 2.8)	0 to 4.0 (0 to 6.6)	0 to 7.3 (0 to 11.9)	0 to 16.8 (0 to 28.0)
28.1-26	R1 Cleat	12	0 to 1.7 (0 to 2.8)	0 to 3.9 (0 to 6.3)	0 to 7.1 (0 to 11.6)	0 to 16.3 (0 to 26.7)
28.1-26	R2 Cane & Rice	12	0 to 1.7 (0 to 2.8)	0 to 4.0 (0 to 6.6)	0 to 7.3 (0 to 11.9)	0 to 16.8 (0 to 27.4)

10 TO 95 AND 11 TO 104 RATIO FINAL DRIVES

Tire			1st Gear	2nd Gear	3rd Gear	4th Gear
Size	Type	Ply				
24.5-32	R1 Cleat	10	0 to 1.6 (0 to 2.6)	0 to 3.8 (0 to 6.2)	0 to 6.8 (0 to 11.1)	0 to 15.7 (0 to 25.6)
24.5-32	R2 Cane & Rice	10	0 to 1.7 (0 to 2.7)	0 to 3.9 (0 to 6.3)	0 to 7.1 (0 to 11.8)	0 to 16.2 (0 to 27.0)
30.5-32	R1 Cleat	10	0 to 1.7 (0 to 2.7)	0 to 3.8 (0 to 6.3)	0 to 6.9 (0 to 11.6)	0 to 15.9 (0 to 26.4)
30.5-32	R2 Cane & Rice	10	0 to 1.7 (0 to 2.7)	0 to 3.9 (0 to 6.3)	0 to 7.2 (0 to 11.6)	0 to 16.5 (0 to 26.5)
Tracks			0 to .8 (0 to 1.3)	0 to 1.7 (0 to 2.8)	0 to 3.2 (0 to 5.2)	0 to 7.3 (0 to 11.8)

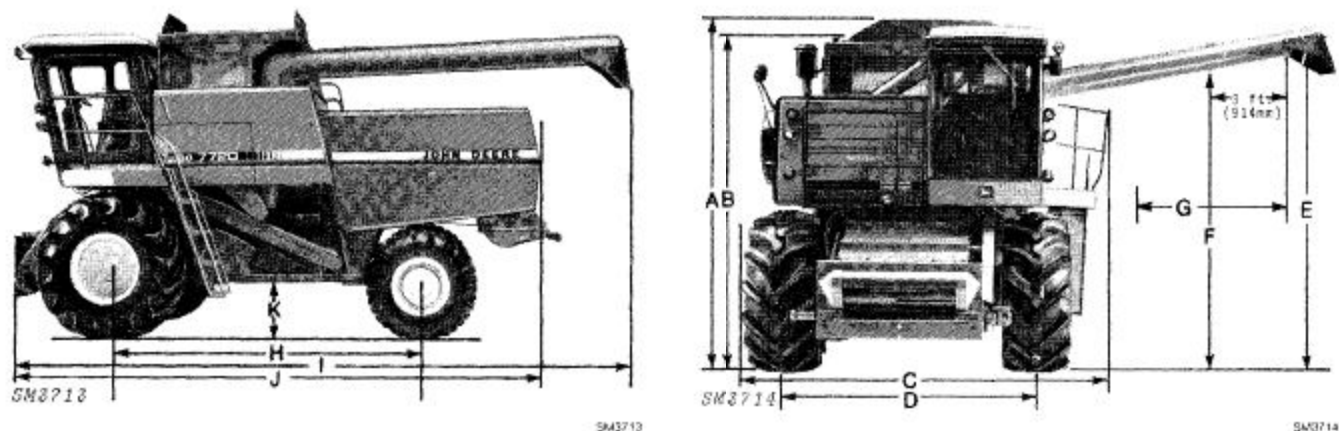
**GROUND SPEED CONTROL RANGE IN MPH (km/h)
7720 RICE AND 8820 COMBINES**

	Tire Size and Type	Ply	1st Gear	2nd Gear	3rd Gear	4th Gear
24.5-32	R1 Cleat	10	0 to 1.6 (0 to 2.6)	0 to 3.6 (0 to 5.8)	0 to 6.5 (0 to 10.5)	0 to 15.0 (0 to 24.1)
24.5-32	R2 Cane and Rice	10	0 to 1.6 (0 to 2.6)	0 to 3.7 (0 to 6.0)	0 to 6.7 (0 to 10.8)	0 to 15.4 (0 to 24.8)
24.5-32	R3 Low Profile	10	0 to 1.5 (0 to 2.4)	0 to 3.4 (0 to 5.5)	0 to 6.3 (0 to 10.1)	0 to 14.4 (0 to 23.2)
18.4-38 Duals and 30.5-32	R1 Cleat	8, 10	0 to 1.6 (0 to 2.0)	0 to 3.6 (0 to 5.8)	0 to 6.5 (0 to 10.5)	0 to 15.1 (0 to 24.3)
18.4-38 Duals and 30.5-32	R2 Cane and Rice	8, 10	0 to 1.6 (0 to 2.6)	0 to 3.7 (0 to 6.0)	0 to 6.8 (0 to 10.9)	0 to 15.6 (0 to 25.1)
30.5-32	R3 Low Profile	10	0 to 1.5 (0 to 2.4)	0 to 3.4 (0 to 5.5)	0 to 6.3 (0 to 10.1)	0 to 14.4 (0 to 23.2)
73x44.00-32	R1.5 High Flotation	12	0 to 1.6 (0 to 2.6)	0 to 3.7 (0 to 6.0)	0 to 6.8 (0 to 10.9)	0 to 15.5 (0 to 25.0)
Tracks			0 to 1.1 (0 to 1.8)	0 to 2.4 (0 to 3.9)	0 to 4.4 (0 to 7.1)	0 to 10.1 (0 to 16.3)

**GROUND SPEED CONTROL RANGE IN MPH (km/h)
WITH 4-WHEEL DRIVE ENGAGED
7720 RICE AND 8820 COMBINES**

	Tire Size and Type	Ply	1st Gear	2nd Gear	3rd Gear	4th Gear
24.5-32	R1 Cleat	10	0 to 1.4 (0 to 2.3)	0 to 2.9 (0 to 4.7)	0 to 4.6 (0 to 7.4)	0 to 7.8 (0 to 12.6)
24.5-32	R2 Cane and Rice	10	0 to 1.5 (0 to 2.4)	0 to 3.0 (0 to 4.8)	0 to 4.8 (0 to 7.7)	0 to 7.9 (0 to 12.7)
18.4-38 Duals and 30.5-32	R1 Cleat	8, 10	0 to 1.4 (0 to 2.3)	0 to 2.9 (0 to 4.7)	0 to 4.7 (0 to 7.6)	0 to 7.9 (0 to 12.7)
18.4-38 Duals and 30.5-32	R2 Cane and Rice	8, 10	0 to 1.5 (0 to 2.4)	0 to 3.0 (0 to 4.8)	0 to 4.8 (0 to 7.7)	0 to 8.0 (0 to 12.9)
73x44.00-32	R.1 High Flotation	12	0 to 1.5 (0 to 2.4)	0 to 3.0 (0 to 4.8)	0 to 4.7 (0 to 7.6)	0 to 7.7 (0 to 12.4)
Tracks			0 to 1.0 (0 to 1.6)	0 to 2.0 (0 to 3.2)	0 to 3.2 (0 to 5.1)	0 to 5.5 (0 to 8.9)

DIMENSIONS



Dimensions are with combine equipped with standard equipment tires and radio antenna clipped to roof.

	6620	SideHill 6620	7720	8820
Standard Equipment Tires	23.1-26-in.	23.1-26-in.	24.5-32-in.	30.5-32-in.
	Cleat (R-1)	Cleat (R-1)	Cleat (R-1)	Cleat (R-1)
A. Height (Grain Tank Flip-Up In Up Position)	13 ft.	13 ft. 3 in.	13 ft. 4 in.	13 ft. 4 in.
	(3.96 m)	(4.04 m)	(3.96 m)	(4.06 m)
B. Height (Grain Tank Flip-Up In Down Position And Exhaust Pipe At Highest Point)	12 ft. 8 in.	12 ft. 11 in.	13 ft.	13 ft.
	(3.86 m)	(3.94 m)	(3.86 m)	(3.96 m)
C. Width	12 ft. 4 in.	13 ft.	13 ft. 3 in.	14 ft. 5 in.
	(3.76 m)	(3.96 m)	(4.04 m)	(4.39 m)
D. Wheel Tread - For tread widths refer to wheel spacers page in the operator's manual.				
E. Unloading Auger Discharge Height	12 ft. 2 in.	12 ft. 5 in.	12 ft. 2 in.	12 ft. 6 in.
	(3.71 m)	(3.78 m)	(3.71 m)	(3.81 m)
F. Unloading Auger Clearance Height	11 ft. 8 in.	11 ft. 11 in.	11 ft. 8 in.	12 ft.
	(3.56 m)	(3.63 m)	(3.56 m)	(3.66 m)
G. Unloading Auger Reach*	5 ft. 7 in.	5 ft. 7 in.	4 ft. 1 in.	4 ft. 6 in.
	(1.70 m)	(1.70 m)	(1.24 m)	(1.37 m)
Header Size Used	20 ft.	20 ft.	24 ft.	24 ft.
	(6.1 m)	(6.1 m)	(7.32 m)	(7.32 m)
H. Wheelbase (All but heavy-duty)	12 ft. 1 in.	12 ft. 10 in.	12 ft. 1 in.	N/A
	(3.68 m)	(3.91 m)	(3.68 m)	
Heavy-Duty Rear Axle	12 ft. 8 in.	12 ft. 8 in.	12 ft. 8 in.	12 ft. 8 in.
	(3.86 m)	(3.86 m)	(3.86 m)	(3.86 m)
**Turning Radius	N/A	N/A	20 ft. 8 in.	26 ft. 4 in.
			(6.33 m)	(8.03 m)
***Clearance Radius	N/A	N/A	28 ft. 9 in.	30 ft.
			(8.89 m)	(9.14 m)

*Add 3-ft. (0.9 m) for extra long unloading auger.

**Measured to center of outer wheel track.

***Measured to extreme scribed circle (end of unloading auger in transport position).



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