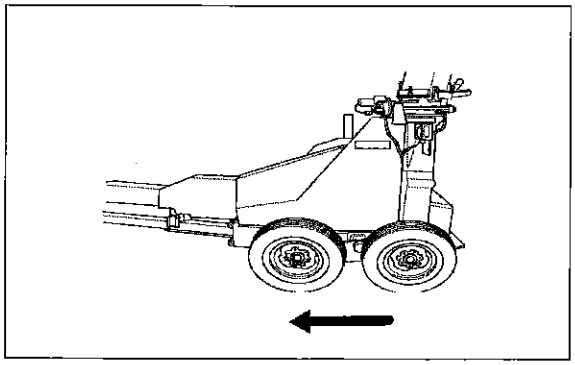
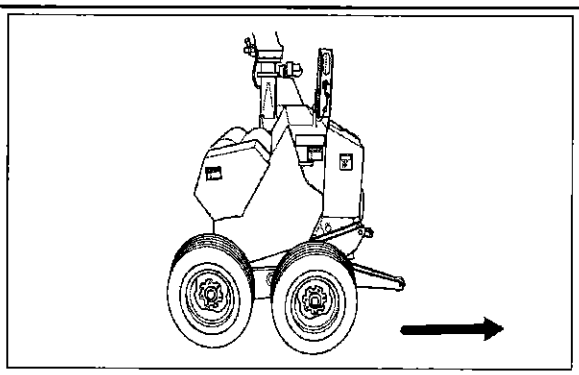
Machine orientation

To determine "left-hand" (LH) and "right-hand" (RH) stand at the rear of the machine and face the normal direction of travel.

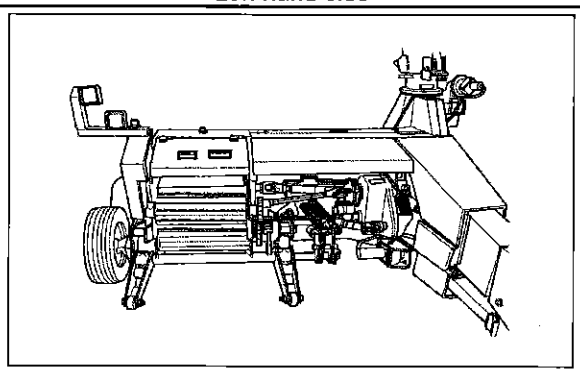
NOTE: *The arrow indicates the normal direction of travel.*



10998206A 1
Left-hand side



10998202A 2
Right-hand side



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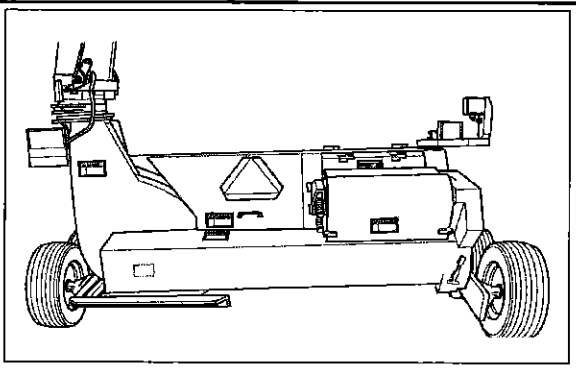
Front



20115959A 4
Rear

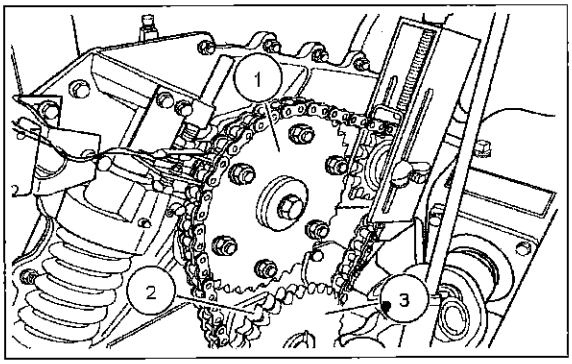
Length of cut

Change sprocket teeth	Average length of cut — mm (in.) 38T standard top sprocket			
	12 Knives	8 Knives	6 Knives	4 Knives
12	4 mm (3/16 in)	6 mm (1/4 in)	9 mm (3/8 in)	13 mm (1/2 in)
18	6 mm (1/4 in)	10 mm (3/8 in)	13 mm (1/2 in)	20 mm (13/16 in)
19	6 mm (1/4 in)	10 mm (3/8 in)	13 mm (1/2 in)	20 mm (13/16 in)
22	8 mm (5/16 in)	12 mm (1/2 in)	15 mm (5/8 in)	23 mm (15/16 in)
26	9 mm (3/8 in)	14 mm (9/16 in)	18 mm (3/4 in)	27 mm (1–1/16 in)
28	10 mm (3/8 in)	15 mm (9/16 in)	20 mm (13/16 in)	30 mm (1–3/16 in)
30	11 mm (7/16 in)	16 mm (5/8 in)	21 mm (7/8 in)	32 mm (1–1/4 in)
32*				

* The 32 tooth lower sprocket will not fit with the 38 tooth upper sprocket.

Change sprocket teeth	Average length of cut — mm (in.) 35T optional top sprocket			
	12 Knives	8 Knives	6 Knives	4 Knives
12	5 mm (3/16 in)	7 mm (1/4 in)	9 mm (3/8 in)	14 mm (9/16 in)
18	7 mm (1/4 in)	10 mm (3/8 in)	14 mm (9/16 in)	21 mm (13/16 in)
19	7 mm (1/4 in)	10 mm (3/8 in)	14 mm (9/16 in)	21 mm (13/16 in)
22	8 mm (5/16 in)	13 mm (1/2 in)	17 mm (11/16 in)	25 mm (1 in)
26	10 mm (3/8 in)	15 mm (9/16 in)	20 mm (13/16 in)	30 mm (1–3/16 in)
28	11 mm (7/16 in)	16 mm (5/8 in)	22 mm (7/8 in)	32 mm (1–1/4 in)
30	12 mm (7/16 in)	18 mm (11/16 in)	23 mm (15/16 in)	35 mm (1–3/8 in)
32*	12 mm (1/2 in)	19 mm (3/4 in)	25 mm (1 in)	37 mm (1–1/2 in)

NOTE: *The harvester is shipped with a 38 tooth upper sprocket* ***(1)****, and a 26 tooth lower sprocket* ***(2)*** *installed. A 30 tooth sprocket* ***(3)*** *is on the other side of the lower sprocket. A 12 tooth and 19 tooth lower sprocket is included with the machine. The 35 tooth upper sprocket, an 18 and 22 tooth lower sprocket and a 28 and 32 tooth lower sprocket are available through service parts.*



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Blower

⚠ WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.

1. **Disengage all drives.**
2. **Engage parking brake.**
3. **Lower all attachments to the ground, or raise and engage all safety locks.**
4. **Shut off engine.**
5. **Remove key from key switch.**
6. **Switch off battery key, if installed.**
7. **Wait for all machine movement to stop.**

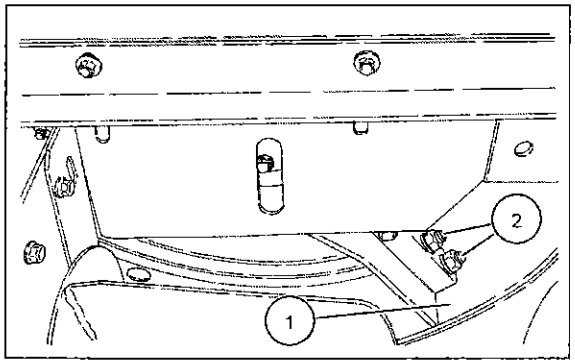
Failure to comply could result in death or serious injury.

W0047A

Blower

Blow will be significantly reduced if proper paddle to band clearance is not maintained. The blower paddles are adjustable.

NOTICE: *The clearance between the paddle tips and the band should never decrease from the inlet to the discharge end of the band. Pinching of material will occur if this clearance decreases. Excessive horsepower to blow material and band wear will occur. The paint on the band can also be damaged by heat buildup from pinched material.*



20010146A 1

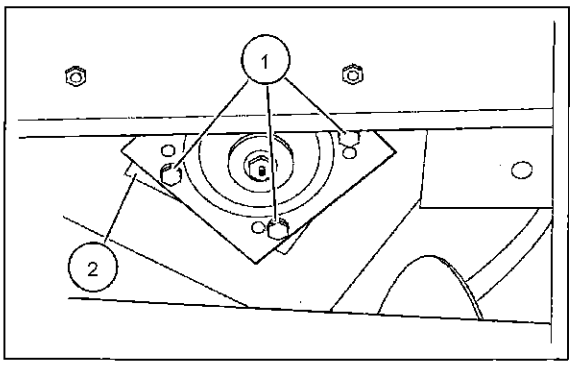
Paddle-to-band clearance should not exceed **1.0 mm** (**0.04 in**) at the bottom of the blower **(1)**. To adjust the paddles, loosen both bolts **(2)** and slide the paddle down. Tighten the hardware securely to prevent the paddles from moving.

NOTE: *Use new hardware at* ***(2)*** *when replacing blower paddles.*

The fan assembly with paddles should also operate centered front to rear in the blower housing.

To center the fan, shift shim washers at **(1)** from one side of the drive plate **(2)** to the opposite side as required to move the fan assembly either forward or rearward in the blower housing.

NOTE: *Check the blower liner (wear plate) occasionally for wear and replace as necessary. The degree of wear will depend on the crop being harvested and the amount of abrasive materials lodged in the crop.*



19997198B 2

MAINTENANCE CHART

Maintenance Chart

Satisfactory operation and long machine life depend on proper maintenance. Follow the recommended maintenance procedures and intervals in this manual to prevent costly breakdowns.

Service Interval	Page Nb.	Service Points	Check	Grease	Reset	Change fluid	Adjust	Lubricate	Inspect and tighten	Re-pack	Slip and set	Sharpen
Every 4 hours	**6-34**	Shear bar					X					
	6-32	Re-cutter screen			X							
Every 5 hours	**6-1**	All chains						X				
	6-19	Chain tension	X*				X*					
	6-39	Wheel bolt torque **102 N·m (75 lb ft)**	X*									
	1-6	Hardware							X*			
	5-13	Alignment of sprockets	X*									
	6-17	Blower clutch									X*	
	6-13	Feed roll drive clutch									X*	
Every 8 hours	**6-22**	Cutterhead knives										X
Every 10 hours	**6-1**	All chains						X				
	6-1	10-hour fittings		X								
Every 50 hours	**6-1**	50-hour fittings		X								
	1-22	Tire pressure **30 psi**	X									
	6-19	Chain tension	X				X					
	6-1	Oil level in bevel gearbox	X									
	6-1	Oil in reversing gearbox	X									
Every 500 hours or annually	**6-39**	Wheel bolt torque **102 N·m (75 lb ft)**	X									
	1-6	Hardware							X			
	5-13	Alignment of sprockets	X									
	6-1	Bevel gearbox oil				X						
	6-1	Reversing gearbox oil				X						
	6-1	Wheel bearings								X		
	6-17	Blower clutch									X	
	6-13	Feed roll drive clutch									X	
	6-21	Smooth roll scraper					X					
	6-44	Blower paddles					X					
As required	**6-22**	Cutterhead knives			X							

*Initial break-in period only

NOTE: *Shorten these recommended maintenance intervals under extreme conditions.*

SECTION 2
OPERATION

IMPORTANT: *Avoid rocks, stumps, holes, fence posts, and other obstructions which could damage the attachment.*

⚠ WARNING ⚠

Keep all shields in place when the harvester is in operation.

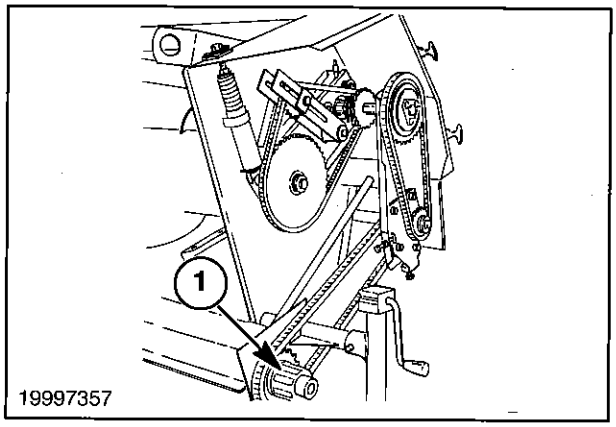
Never attempt to lubricate, service or manually unplug the harvester while it is running. Always disengage the PTO and stop the engine.

Some parts continue to rotate after the power is shut off. Look and listen for any evidence of rotating parts. Do not open or remove shields until all parts have stopped turning.

GATHERING CHAIN SPEED

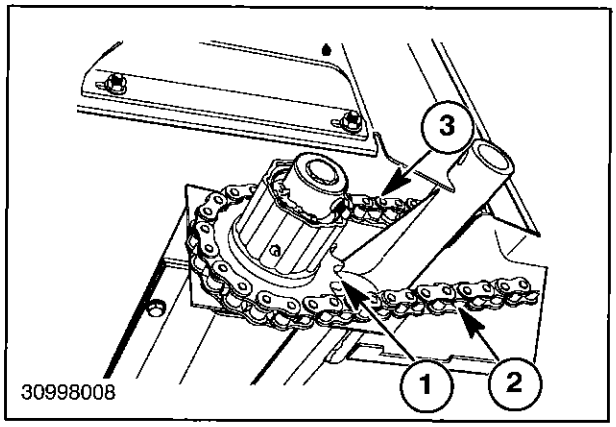
Use the chart to match the forward speed with the gathering chain speed.

Speed MPH	Row Drive Reference #1	
Up to 4.5	21T	Optional
Up to 6.0	19T	Standard
Up to 7.5	17T	Optional



1

To change the sprocket, 1, remove the drive chain, 2. Loosen the set screws, 3, and pull off the over running clutch. Remove the six bolts on the sprocket. Bolt on the new sprocket. Replace the clutch and drive chain. Adjust the chain to deflect 3 to 6 mm (1/8 to 1/4") at 6.8 kg (15 lbs.).



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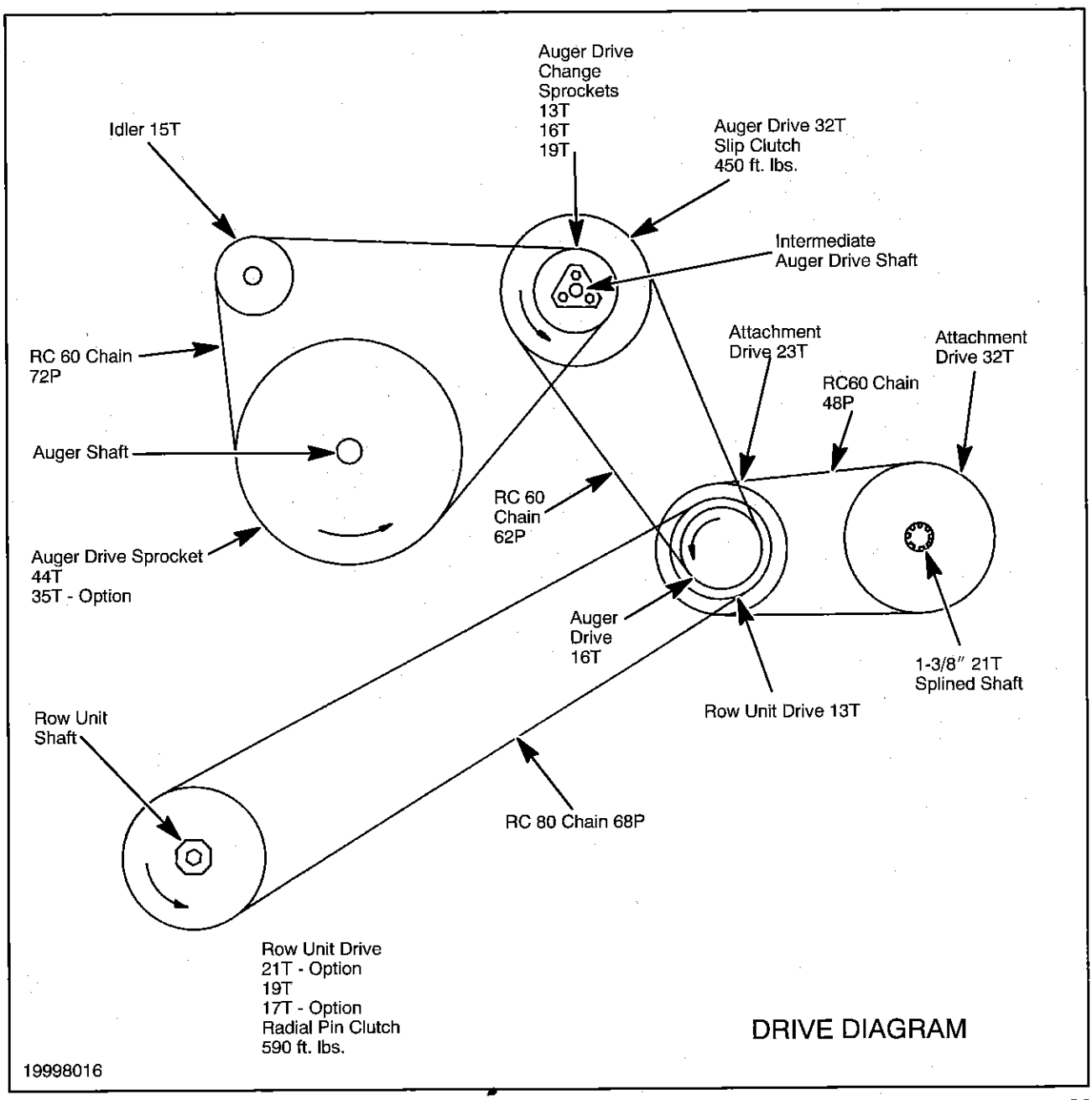
SECTION 7
SPECIFICATIONS

Weight	921 kg (2030 lbs.)
Width	2337 mm (92″)
Overall length	2362 mm (93″)
Overall height	1346 mm (53″)
Drive Protection	
Auger	Friction disc clutch, 610 N·m (450 ft. lbs.)
Row Units	Radial pin, 800 N·m (590 ft. lbs.)
Ground Speed	0-13 km/h (0-8 MPH)
Row spacing	70 cm-86 cm (28″-32″)



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ATTACHMENT DRIVE

This figure shows the overall drivetrain configuration.

CONVERSION CHART

Inch Fractions and Decimals to Millimeter Equivalents											
INCHES		MM	INCHES		MM	INCHES		MM	INCHES		MM
Fraction	Decimal		Fraction	Decimal		Fraction	Decimal		Fraction	Decimal	
-	.0004	.01	-	.3	7.620	-	.7874	20	-	1.969	50
-	.001	.025	5/16	.3125	7.938	51/64	.7969	20.241	2	2.000	50.8
-	.0039	.10	-	.3150	8	13/16	.8125	20.638	2-1/8	2.125	54
-	.005	.127	21/64	.3281	8.334	-	.8268	21	-	2.165	55
-	.0079	.2	-	.3346	8.5	53/64	.8281	21.034	2-1/4	2.250	57.2
-	.0098	.25	11/32	.3438	8.731	27/32	.8438	21.431	-	2.362	60
-	.01	.254	-	.3543	9	55/64	.8594	21.828	2-3/8	2.375	60.3
-	.0118	.3	23/64	.3594	9.128	-	.8662	22	2-1/2	2.500	63.5
1/64	.0156	.397	-	.3740	9.5	7/8	.8750	22.225	-	2.559	65
-	.0157	.4	3/8	.375	9.525	57/64	.8906	22.622	2-5/8	2.625	66.7
-	.0197	.5	25/64	.3906	9.922	-	.9	22.860	2-3/4	2.750	69.9
-	.0236	.6	-	.3937	10	-	.9055	23	-	2.756	70
-	.025	.635	-	.4	10.160	29/32	.9063	23.019	2-7/8	2.875	73
-	.0276	.7	13/32	.4062	10.319	59/64	.9219	23.416	-	2.953	75
-	.0295	.75	-	.4134	10.5	15/16	.9375	23.813	3	3.000	76.2
1/32	.0313	.794	27/64	.4219	10.716	-	.9449	24	-	3.150	80
-	.0315	.8	-	.4331	11	61/64	.9531	24.209	3-1/4	3.250	82.6
-	.0354	.9	7/16	.4375	11.113	31/32	.9688	24.606	-	3.346	85
-	.0394	1	29/64	.4531	11.509	-	.9843	25	3-1/2	3.500	88.9
3/64	.0469	1.191	15/32	.4688	11.906	1	1.000	25.400	-	3.543	90
-	.0472	1.20	-	.4724	12	-	1.024	26	-	3.740	95
-	.05	1.270	31/64	.4844	12.303	1-1/16	1.062	26.988	3-3/4	3.750	95.3
-	.0551	1.4	-	.4921	12.5	-	1.063	27	-	3.937	100
-	.0591	1.50	1/2	.5	12.700	-	1.102	28	4	4.000	101.6
1/16	.0625	1.588	-	.5118	13	1-1/8	1.125	28.575	-	4.331	110
-	.0669	1.70	33/64	.5156	13.097	-	1.142	29	4-1/2	4.500	114.3
-	.075	1.905	17/32	.5326	13.494	-	1.181	30	-	4.724	120
5/64	.0781	1.984	-	.5315	13.5	1-3/16	1.188	30.16	5	5.000	127
-	.0787	2	35/64	.5469	13.891	-	1.221	31	-	5.118	130
-	.0906	2.3	-	.5512	14	1-1/4	1.250	31.75	5-1/2	5.500	139.7
3/32	.0938	2.381	9/16	.5625	14.288	-	1.260	32	-	5.512	140
-	.0984	2.5	-	.571	14.5	-	1.299	33	-	5.906	150
-	.1	2.540	37/64	.5781	14.684	1-5/16	1.312	33.34	6	6.000	152.4
-	.1024	2.6	-	.5906	15	-	1.339	34	-	6.299	160
7/64	.1093	2.776	19/32	.5938	15.081	1-3/8	1.375	34.93	6-1/2	6.500	165.1
-	.1181	3	-	.6	15.240	-	1.378	35	7	7.000	177.8
1/8	.125	3.175	39/64	.6094	15.478	-	1.417	36	-	7.087	180
-	.1378	3.5	-	.6103	15.5	1-7/16	1.438	36.51	7-1/2	7.500	190.5
9/64	.1406	3.572	5/8	.6250	15.875	-	1.457	37	-	7.874	200
5/32	.1563	3.969	-	.6299	16	-	1.496	38	8	8.000	203.2
-	.1575	4	41/64	.6406	16.272	1-1/2	1.500	38.10	8-1/2	8.500	215.9
11/64	.1719	4.366	-	.6496	16.5	-	1.535	39	-	8.661	220
-	.1772	4.5	21/32	.6563	16.669	1-9/16	1.562	39.69	9	9.000	228.6
3/6	.1875	4.763	-	.6693	17	-	1.575	40	-	9.449	240
-	.1969	5	43/64	.6719	17.066	-	1.614	41	9-1/2	9.500	241.3
-	.2	5.080	11/16	.6875	17.463	1-5/8	1.625	41.28	-	9.843	250
13/64	.2031	5.159	-	.6890	17.5	-	1.654	42	10	10.000	254
-	.2165	5.5	-	.7	17.780	1-11/16	1.688	42.86	-	10.236	260
7/32	.2188	5.556	45/64	.7031	17.859	-	1.693	43	11	11.000	279.4
15/64	.2344	5.963	-	.7087	18	-	1.732	44	-	11.024	280
-	.2362	6	23/32	.7188	18.256	1-3/4	1.750	44.45	-	11.811	300
1/4	.25	6.350	-	.7283	18.5	-	1.772	45	12	12.000	304.8
-	.2559	6.5	47/64	.7344	18.653	-	1.811	46	13	13.000	330.2
17/64	.2656	6.747	-	.7480	19	1-13/16	1.813	46.04	-	13.780	350
-	.2756	7	3/4	.75	19.050	-	1.850	47	14	14.000	355.6
9/32	.2813	7.144	49/64	.7656	19.447	1-7/8	1.875	47.63	15	15.000	381
	.2953	7.5	-	.7677	19.5	-	1.890	48	-	15.748	400
19/64	.2969	7.541	25/32	.7813	19.844	-	1.929	49	16	16.000	406.4