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REPAIR LIST

Windmill-Parts.com

214 504-8234 Model 24 Star Steel Back-Geared Windmill 214 504-8234

No. of Part	Description of Part	5-Foot Mill		7-Foot Mill		8-Foot Mill	
		Symbol	Price	Symbol	Price	Symbol	Price
1	Main Casting	154A	\$ 7.70	174A	\$ 9.40	184A	\$11.50
	Main Casting Pipe Plug		.25		.25		.25
	Main Casting Pipe	2 1/2"	.10				
	Roller Bearing for Drive Shaft	3/4"	1.90	63-64"	2.00	1 1/4"	2.00
2	Oil Cap and Bearing, Adj. Roller Bearing	254	.35	274	.35	284	.40
3	Crank Shaft for Roller Bearing	354	1.00	374	1.00	384	1.25
	Roller Bearing for Crank Shaft	63-64"	2.00	1 1/4"	2.00	1 1/2"	2.00
4	Pitman	355	.35	374	.45	384	.55
5	Crank Shaft Case for Babbitt Bearing	554	1.10	574A	1.25	584A	1.40
6	Oil Cap and Bearing, Adj. No-Oil-Em Bearing	654	.35	674	.35	684	.40
7	Guide Rod Tie	754	.35	774	.40	784	.45
8	Crosshead	854A	1.10	874A	1.40	884A	1.50
9	Gear	954	.85	974	1.10	984	1.65
10	Pinion	1054	.45	1074	.55	1084	.65
11	Oil Race	1154	.25	1174	.25	1184 1/2	.25
14	Bed Plate	1484	.75	1484	.75	1484	.75
15	Bed Plate Top Flange	1584	.75	1584	.75	1584	.75
16	Truing Spider	1684	.75	1684	.75	1684	.75
18	Wheel Hub	1854A	2.00	1874A	2.75	1884A	3.30
19	Pullout Swivel Casting Assembly	1954	1.10	1984	1.25	1984	1.25
	Pullout Lever for 4-Post Steel Tower		.80		.80		.80
	Pullout Lever for 4-Post Wood Tower		.50		.50		.50
	Pullout Lever for 3-Post Steel Tower		.75		.75		.75
22	Pump Bar and Swivel Casting	2254	1.00	2274	1.30	2284	1.50
23	Sheave	2382	.20	2382	.20	2382	.20
23	Bumper Rod and Nuts	2354	.25	2374	.25	2384	.30
	Bumper Rod Pin	1/2 x 3/8"	.15	1/2 x 1/2"	.15	1/2 x 5/8"	.15
	Bumper Rod Spring		.10		.10		.10
24	Sheave Cover	2484	.15	2484	.15	2484	.15
25	Oil Pump Plunger and Valve Seat and Cap	2554	.45	2574	.50	2584	.60
26	Pump Cylinder, Valve Seat and Bushing	2654	.85	2674	.90	2684	.90
28	Drive Shaft for Babbitt Bearing	2854A	1.10	2874A	1.40	2884A	1.65
29	Drive Shaft for Roller Bearing	2954A	1.10	2974A	1.40	2984A	1.65
	Drive Shaft Wire Oil Ring		.05		.05		.05
	Castellated Nut		.10		.10		.10
	Drive Shaft Keys, Plain		.05		.05		.05
	Drive Shaft Keys, Machined		.10		.10		.10
30	Crank Shaft—Nut and Washer	3054	.40	3074	.45	3084	.50
31	Long Guide Rod	3134	.40	3174	.40	3184	.45
	Long Guide Rod Brass Hexagon Nut		.15		.15		.15
32	Short Guide Rod	3254	.30	3274	.35	3284	.35
33	Brake Band and Clip	3354A	.40	3374A	.40	3384A	.40
36	Governor Spring Bracket	3654	.15	3674	.15	3684	.15
44	Governor Spring	4454	.65	4474	.65	4474	.65
37	Hood or Cover	3754	2.20	3774	2.50	3784	2.75
38	Bed Plate Separators and Balls, Per Set	3884	.30	3884	.30	3884	.30
40	Rudder Pin	4054	.25	4074	.30	4084	.30
46	Drive Shaft Cast Bearing	4654A	.75	4674A	.75	4684A	.75
47	Crank Shaft Babbitt Bearing	4754A	.35	4774A	.40	4784A	.40
	Wood Blocks and Bolts for Wood Tower, Per Set		.55		.55		.55
50	Bottom Cap	5054	.30				
	Brake Rod Spring		.10		.10		.10
54	Brake Rod Casting	5454	.10	5474	.10	5484	.15
55	Brake Rod	5554	.25	5574	.25	5584	.25
56	Brake and Bumper Rod Eye-Bolt	5654	.20	5674	.20	5684	.20
	Rudder		4.00		4.40		5.00
	Rudder Stem		1.60		2.00		2.50
	Rudder as shipped		8.00		10.00		10.50
	Wheel Arms, Per Set		1.50		2.40		3.25
	Wheel Arm Braces, Per Set		.70		1.10		1.50
	Large Wheel Fan Brackets, Each		.15		.15		.15
	Wheel Fann, Each		.55		.70		.75
	Short Wheel Rims, Per Set		.65		1.10		1.40
	Long Wheel Rims, Per Set		1.30		2.20		2.75
	Wheel Sections—Less Arms—Per Set of 3		8.25	4	13.20	5	17.00
	Wheel Sections—Less Arms—Each		8.30		3.65		4.25

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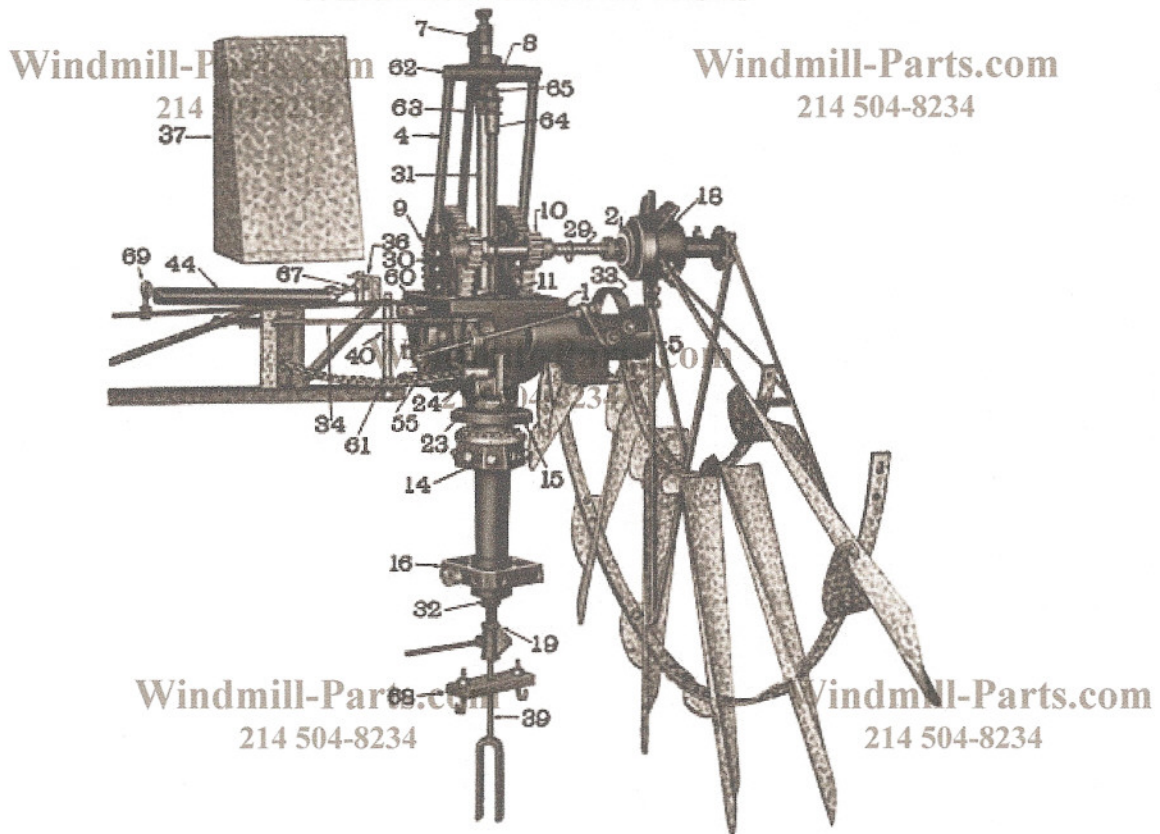


Windmill-Parts.com REPAIR LIST—Continued Windmill-Parts.com
214 504-8234 Model 24 Star Steel Back-Geared Windmill 214 504-8234

No. of Part	Description of Part	10-Foot Mill		12-Foot Mill		15-Foot Mill	
		Symbol	Price	Symbol	Price	Symbol	Price
1	Main Casting	101A	\$17.00	124A	\$27.50	164A	\$55.00
	Main Casting Pipe				3.00		
	Main Casting Pipe Plug	2 1/2"	.35	3"	.45		.75
	Main Casting Pipe Flange and Pipe					142 1/2	12.50
	Roller Bearing for Drive Shaft	1 1/4"	2.20	1 1/2"	3.25	1 3/4"	4.50
2	Oil Cap and Bearing, Adj. Roller Bearings	204	.45	224	.85	264	1.50
3	Crank Shaft Case for Roller Bearing	304	1.80	324	2.60	364	4.75
	Roller Bearing for Crank Shaft	1 1/2"	3.25	1 1/4"	4.50	2 1/2"	5.50
4	Pitman	404	.80	424	1.50	464	3.25
	Crank Shaft Case for Babbitt Bearing	504A	2.00	524	3.00		
6	Oil Cap and Bearing, Adj. No-Oil-Em Bearing	604	.50	624	.70	664	1.00
7	Guide Rod Tie	704	.65	724	1.00	764	2.00
8	Crosshead	804A	2.00	824A	3.50	864A	5.00
9	Gear	904	2.50	924	4.25	964	9.00
10	Pinion	1004	1.10	1024	2.00	1064	3.50
11	Oil Race	1104	.35	1124	.40	1164	.45
14	Bed Plate	1484	1.00	1584	1.50	255 1/2	3.85
15	Bed Plate Top Flange						
	Bed Plate Top Race			524	1.00	5264	3.00
	Bed Plate Bottom Race			5324	1.10	5364	3.00
	Bed Plate and Spider Clips, Each				.05		.10
	Bed Plate and Spider Staples, Each				.15		.30
	Truing Spider Clips, for Wood Tower, Each						.40
16	Wheel Hub Flange	1684	.80	2335	1.20	2555 1/2	1.90
17	Wheel Hub	1804A	5.00	1824A	8.50	1764A	4.00
18	Wheel Hub Key		.25		.30	1864A	17.00
19	Pullout Swivel Casting Assembled	1984	1.40	1924	2.75	1964	3.30
	Pullout Lever for 4-Post Steel Tower		.80		1.00		1.75
	Pullout Lever for 4-Post Wood Tower		.50		.70		1.35
	Pullout Lever for 3-Post Steel Tower		.75				1.50
	Pullout Swivel Guide						.40
	Pullout Swivel Clips, for Steel Tower						.45
	Pullout Swivel Bar for Wood Tower						6.25
22	Pump Bar and Swivel	2204	1.75	2224	3.25	2264	.75
23	Sheave	2382	.20	2322	.25	2362	.40
24	Sheave Cover	2484	.15	2424	.30	2464	1.10
25	Bumper Rod and Nuts	2504	.35	2524	.65	2564	.65
	Bumper Rod Pin	1/2"x6 3/8"	.20	5/8"x8 3/8"	.30	3/4"x11"	.25
25	Oil Pump Plunger, Valve Seat and Cap	2504	.55	2524	.60	2564	.70
26	Pump Cylinder and Valve Seat	2584A	.10	2584A	.10	2684A	.10
27	Pump Cylinder Bushing	2604	.80	2624	.65	2664	.85
28	Drive Shaft for Babbitt Bearing	2784	.20	2784	.20	2784	.20
29	Drive Shaft for Roller Bearing	2804A	2.00	2824A	3.00	2864A	6.00
	Drive Shaft Wire Oil Ring	2904A	2.00	2924A	3.00	2964A	6.00
	Castellated Nut		.10		.10		.10
	Drive Shaft Keys, Plain		.05		.05		.05
	Drive Shaft Keys, Machined		.10		.10		.15
30	Crank Shaft—Nut and Washer	3004	1.75	3024	.65	3064	2.75
31	Long Guide Rod	3104	.75	3124	.95	3164	1.60
	Long Guide Rod Brass Hexagon Nut		.25		.30		.50
32	Short Guide Rod	3204	.50	3224	.80	3264	1.50
33	Brake Band and Clip	3304A	.50	3324A	.85	3364A	1.40
36	Governor Spring Bracket	3604	.25	3624	.38	3664	.40
44	Governor Spring	4404	1.00	4424	2.80	4464	9.00
37	Head or Cover	3704	3.30	3724	5.00	3764	9.00
38	Bed Plate Separators and Balls, Per Set	3884	.35				2.00
	Bed Plate Steel Balls, Per Set				.50	and Re-Liner	1.10
40	Rudder Pin	4004	.40	4024	.60	4064	1.10
46	Drive Shaft Cast Bearing	4604A	.80	4624A	3.00		
47	Crank Shaft Babbitt Bearing	4704A	.55	4724	1.40		
50	Bottom Cap			5024	.85	5064	1.25
	Brake Rod Spring	No. 1	.10	No. 7/8	.125	No. 1	.35
54	Brake Rod Casting	5404	.15	5424	.40	5464	.75
55	Brake Rod and Nuts	5504	.30	5524	.40	5564	.60
56	Brake and Bumper Rod	5604	.25	5624	.30	5664	.40
13	Rudder Hinge					1364	3.25
	Rudder Stem		4.00		6.50		11.50
	Rudder		7.25		10.50		15.00
	Rudder, as shipped		15.00		24.00		47.00
	Wheel Arms, Per Set		5.00		6.75		13.25
	Wheel Arm Braces, Per Set		2.00		3.50		8.25
	Large Wheel Fan Brackets, Each		.15		.15		.15
	Wheel Fans, Each		.75		1.10		1.65
	Short Wheel Rims, Per Set		1.50		2.00		3.75
	Long Wheel Rims, Per Set		3.00		4.50		9.50
	Wheel Sections—Less Arms—Per Set of	6	23.75	7	36.50	8	59.50
	Wheel Sections—Less Arms—Each		1.50		6.00		8.00



WINDMILL REPAIR LISTS



IMPORTANT INSTRUCTIONS TO FOLLOW IN ORDERING REPAIRS

TO AVOID mistakes, and delay, when ordering repairs for Flint & Walling Manufacturing Company's products, great care should be taken to give explicit information about the repair wanted, what kind of windmill, or pump, is to be repaired. We have made windmills and pumps in many models, and each model in several sizes, so that you can readily see that it is necessary to have this information.

All cast parts have a number, in most cases cast on when made in the foundry. If you can give this number we will know what you need, but sometimes the number is covered with dirt or grease until the number cannot be found, in which case try to give symbol numbers on some other part that works in conjunction with part wanted.

Star windmill castings are marked with symbols consisting of three or more numerals. For the Model 24 Star windmill the right hand numeral is 4 and stands for Model 24. The second numeral from the right denotes size of wheel, as 5 for 5 foot, 7 for 7 foot, 8 for 8 foot, 0 for 10 foot, 2 for

12 foot, and 6 for 15 foot windmill. Other numbers refer to casting part. Symbol Model 184 means main casting for 8 foot Model 24 Star windmill.

On the Zephyr Star Model 37 the two figures to right denote Model 37 windmill, the next figure stands for wheel size and remaining figures are casting numbers. Casting number 1737 denotes main casting (No. 1) for 7 foot Model 37 windmill. As some parts of Model 24 interchange these parts will fit on either mill, according to size.

In ordering windmill repairs always give date of purchase if possible and if back geared or direct stroke mill. We can furnish parts for any mill we have ever sold, if we have proper information as to parts wanted. If you have a small part which you want replaced but can find no number it would save delay and correspondence by mailing the old part in to us for duplication. Always attach your name and address to the part.

By observing these instructions we can give you quicker and surer service.