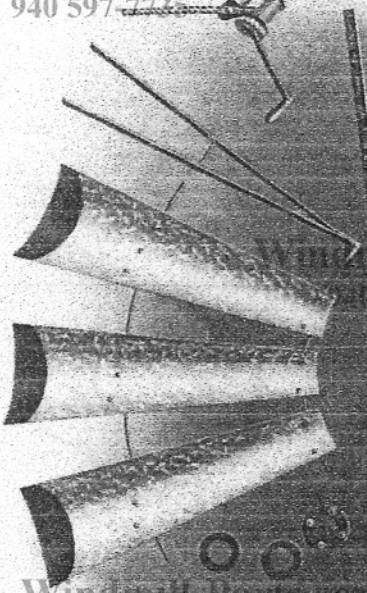


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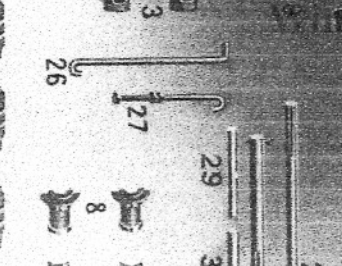
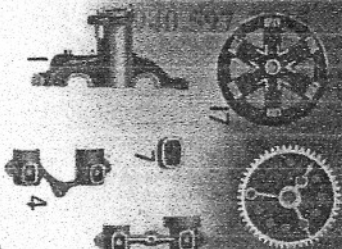
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MFG. CO.  
KENDALLVILLE,  
IND.

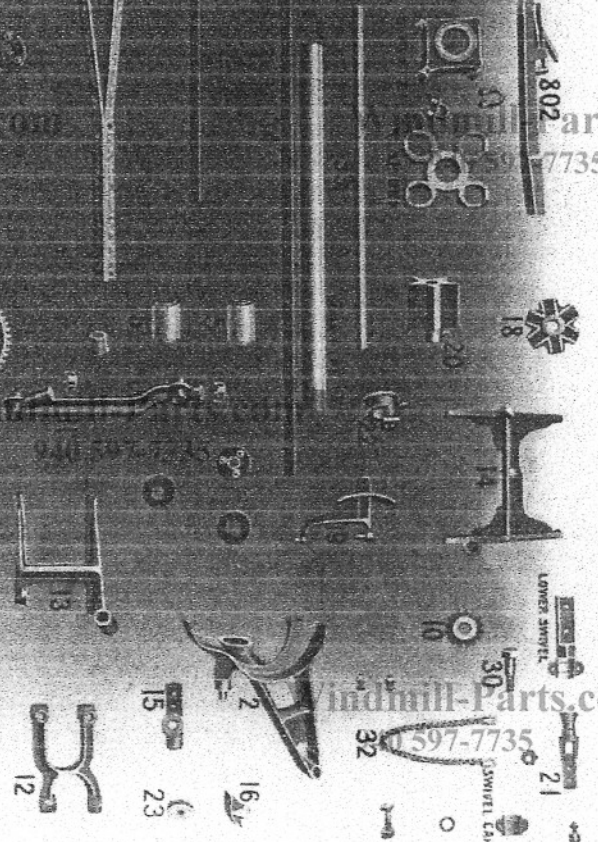


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LOWER SHAFT

SHAFT CAP

Repair Chart — Fig. 604, Model 7 Star Steel Back-Geared Windmills

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## Fig. 604—Star Steel Back-Geared Pumping Windmills, Model 7

These mills not made now, but repairs are furnished as here listed.

No. of Casting	Description of Parts	4-Foot Mill		6-Foot Mill		8-Foot Mill		10-Foot Mill		12-Foot Mill		14-Foot Mill		16-Foot Mill	
		Symbol	Price	Symbol	Price	Symbol	Price	Symbol	Price	Symbol	Price	Symbol	Price	Symbol	Price
1	Lower Frame	157	\$2.50	157	\$2.50	157	\$3.75	107	\$6.50	127	\$9.00	147	\$17.00	167	\$24.00
2	Upper Frame and Pipe	257	3.50	257	3.50	277	5.05	207	7.80	227	12.50	247	18.50	267	24.50
	Main Pipe, when ordered separately		1.00		1.00		1.30		1.30		2.50		3.50		4.50
3	Outside Shaft Cap	357	.60	357	.60	387	1.00	307	1.40	327	2.00	347	3.40	367	4.00
4	Inside Shaft Cap	457	.60	457	.60	487	1.00	407	1.40	427	2.00	447	3.40	467	4.00
5	Shaft Shield, each	557	.10	557	.10	587	.10	507	.20	527	.20	547	.50	567	.70
6	Babbitted Bushing, Main Journal, each	657	.50	657	.50	687	.60	607	.75	627	.90	647	1.40	667	1.70
7	Oil Cup Covers, each	757	.05	757	.05	787	.05	727	.10	747	.10	767	1.10	787	1.10
8	Non Ball-Bearing Babbitted Bushings, each	857	.60	857	.60	887	.75	807	.90	827	1.20	847	1.80	867	2.20
9	Large Gear	957	1.50	957	1.50	987	2.75	907	4.75	927	7.00	947	10.00	967	18.00
10	Pinion	1057	.50	1057	.50	1087	.60	1007	1.60	1027	2.00	1047	3.00	1067	4.00
11	Pitman with Bushings	1157	1.60	1157	1.60	1187	3.00	1107	4.00	1127	4.50	1147	6.50	1167	7.00
	Babbitt Bushing in Pitman, each		.25		.25		.35		.40		.40		.60		.60
	Brass Bush in Pitman, ea.		.75		.75		1.00		1.20		1.20		1.50		1.50
12	Walking Beam	1257	1.00	1257	1.00	1287	1.40	1207	2.00	1227	3.40	1247	5.50	1267	7.00
13	Shifting Crank	1357	1.00	1357	1.00	1387	1.60	1307	2.40	1327	5.00	1347	7.50	1367	8.50
14	Rudder Hinge	1457	1.30	1457	1.30	1487	2.70	1407	4.00	1427	6.50	1447	9.00	1467	18.00
	Bumper Rubber		.10		.10		.30		.30		.40		.40		.40
15	Pump Rod Connection	1557	2.25	1557	2.25	1587	3.50	1507	4.00	1527	7.00	1547	10.00	1567	11.00
16	Sheave Cover	1657	.15	1687	.15	1687	.15	1687	.15	1627	.25	1627	.25	1627	.25
17	Inside Spider	1757	1.10	1757	1.10	1787	2.25	1707	3.75	1727	6.25	1747	10.00	1767	16.00
18	Outside Spider	1857	.65	1857	.65	1887	.75	1807	1.75	1827	2.00	1847	2.75	1867	6.50
19	Brake Shoe	1957	.30	1957	.30	1987	.60	1907	1.00	1927	1.85	1947	2.50	1967	3.25
20	Governor Weight	2057	1.00	2057	1.00	2087	2.40	2007	3.50	2027	5.00	2047	6.00	2067	7.00
21	Upper Swivel Casting	2157	.75	2157	.75	2187	.75	AA7	.40	BB7	.80	D7	1.00	D7	1.00
	Part Lower Swivel Casting	AA7½	.15	AA7½	.15	AA7½	.15	AA7½	.15	BB8½	1.00	CD8	1.40	CD8	1.40
	Part Lower Swivel Casting	AA8	.50	AA8	.50	AA8	.50	AA8	.50	BB8½	1.00	CD8	1.40	CD8	1.40
	Swivel Straps, each									BE	.30	CD	.75	CD	.75
	Swivel Complete		1.50		1.50		1.50		1.50		3.50		5.50		5.50
22	Bottom Cap	2257	.35	2257	.35	2287	.50	2207	.50	2227	.70	2247	.80	2267	1.30
23	Sheave	2357	.25	2387	.25	2387	.25	2387	.25	2327	.30	2327	.30	2327	.30
24	Drive Shaft	2457-4'	1.00	2457-6'	1.00	2487	1.25	2407	2.50	2427	4.00	2447	6.50	2467	8.00
25	Crankshaft	2557	.60	2557	.60	2587	.75	2507	1.50	2527	2.00	2547	3.25	2567	4.00
26	Rudder Hinge Connection Rod	2657	.25	2657	.25	2687	.40	2607	.40	2627	.40	2647	.50	2667	.80
27	Brake Rod	2757	.30	2757	.30	2787	.30	2707	.35	2727	.40	2747	.50	2767	.60
28	Brake Coil Spring	2857	.10	2887	.10	2887	.10	2887	.10	2827	.10	2827	.10	2827	.10
29	Fulcrum Shaft	2957	.20	2957	.20	2987	.30	2907	.40	2927	.50	2947	.75	2967	.90
30	Wrist Pin	3057	.60	3057	.60	3087	.65	3007	.75	3027	.85	3047	1.10	3067	1.25
31	Crosshead Pin	3157	.25	3157	.25	3187	.35	3107	.40	3127	.50	3147	.75	3167	.90
32	Governor Chain	3257	.40	3257	.40	3287	.60	3207	.60	3227	.70	3247	1.20	3267	1.20
33	Governor Pipe	3357	.30	3357	.30	3387	.50	3307	.60	3327	.80	3347	1.20	3367	2.00
34	Plunger Rod	3457	.40	3457	.40	3487	.70	3407	.80	3427	1.50	3447	2.50	3467	3.50
35	Pull-Out Rod	A14	.30	A14	.30	A14	.30	A14	.30	A14	.30	C14	.60	C14	.60
39	Outside Babbitted Shaft Cap					3987	1.80	3907	3.00	3927	3.75	3947	5.00	3967	6.00
40	Inside Babbitted Shaft Cap					4087	1.80	4007	3.00	4027	3.75	4047	5.00	4067	6.00
41	Shaft Shield					4187	1.10	4107	1.15	4127	1.15	4147	1.25	4167	1.40
42	Round Oil Cup Cover, Small, each	4257	.05	4257	.05	2742	.05	2742	.05	2742	.05	2742	.05	2742	.05
	Round Oil Cup Cover, Large, each	2782	.05	2782	.05	2782	.05	2782	.05	4427	1.20	4447	1.65	4467	2.20
44	All-Babbitt Bushing, each					4487	.60	4407	.90	4427	1.20	4447	1.65	4467	2.20
45	Straight Non Ball-Bearing Cap Box					4587	2.00	4507	3.25	4527	4.00	4547	5.50	4567	6.50
46	All-Babbitt Bushing, Non Ball-Bearing					4687	.90	4607	1.35	4627	1.80	4647	2.50	4667	3.30
	Red Plate Retainer and Washers	1½-in.	1.00	1½-in.	1.00	2 -in.	1.20	2 -in.	1.20	2½-in.	1.50	2½-in.	1.50	3 -in.	1.80
	Thrust Retainer and Washers	1 -in.	.80	1 -in.	.80	1½-in.	.80	1½-in.	1.00	1½-in.	1.20	1½-in.	1.35	2½-in.	1.50
	Pump Rod, per foot	1½-in.	.06	1½-in.	.06	1½-in.	.06	1½-in.	.06	1½-in.	.06	1½-in.	.15	2½-in.	.15
	Splice Irons and Bolts, per pair		.30		.30		.30		.35		.35		1.25		1.25
	Short Wheel Hoops, each		.25		.30		.30		.35		.45		.70		.70
	Long Wheel Hoops, each		.50		.50		.50		.60		.70		1.50		1.40
	Large Fan Bracket, each		.15		.15		.15		.20		.30		.30		.30
	Small Fan Bracket, each		.05		.05		.05		.05		.10		.10		.10
	Wheel Fan, Less Brackets, each		.50		.60		1.00		1.20		1.50		2.25		2.60
	Wheel Arm, each		.60		.75		1.00		1.50		2.00		3.50		5.00
	Wheel Section, Less Arm, each		3.75		5.00		5.50		8.00		8.50		13.00		14.50
	Complete Sections, Less Arms	4	11.00	4	14.00	6	20.00	6	30.00	8	46.00	8	75.00	10	100.00
	Rudder Stem		2.00		2.50		3.50		5.50		8.00		14.50		20.50
	Rudder, Less Stem		5.00		5.50		6.50		9.50		14.00		20.50		29.00

For Bed Plates and Truing Spiders, see page 5. For Reefing Gears and Windmill Coupler, see pages 28, 29.