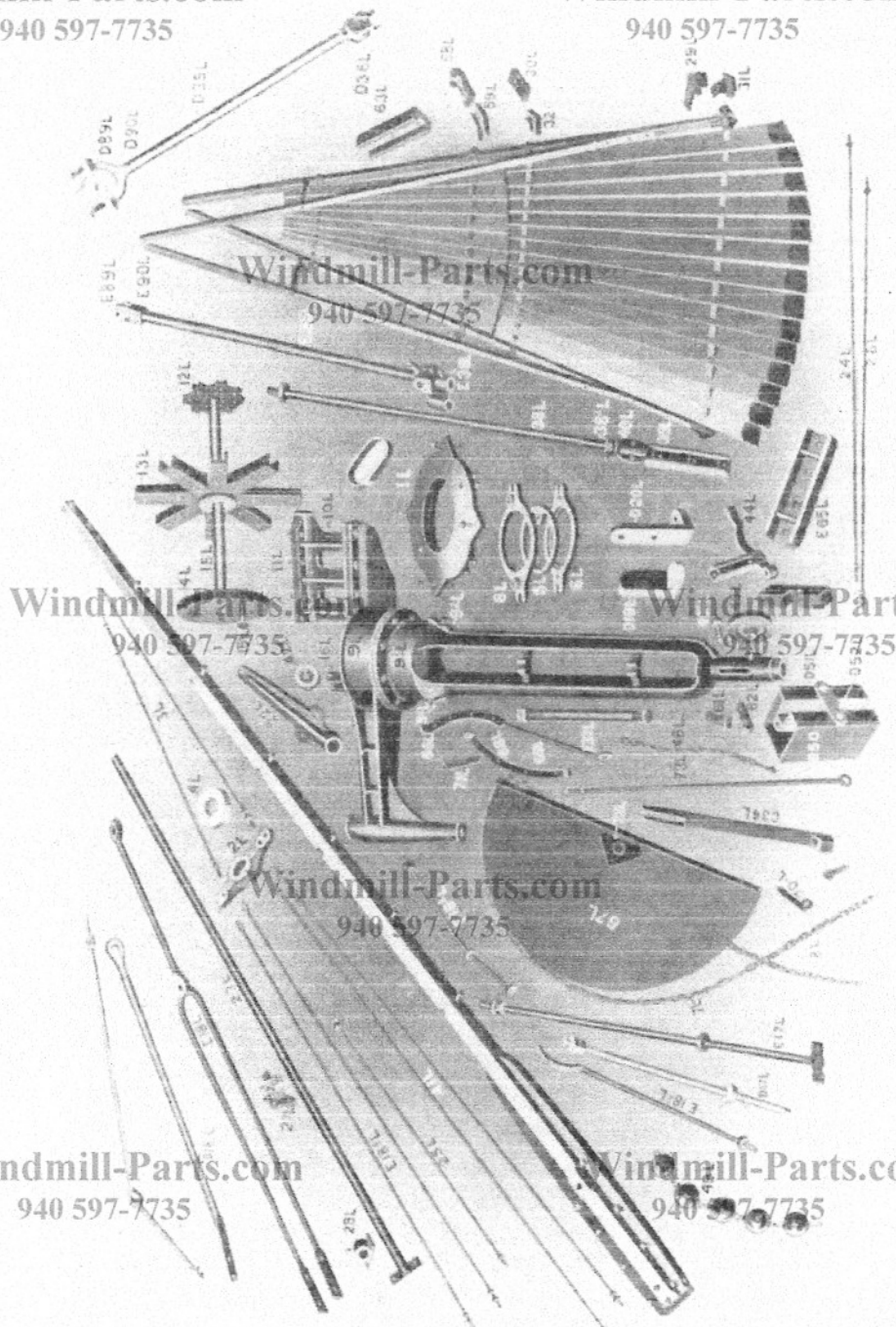


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Repair Chart—16, 18, 20 and 22 Ft. Leader Windmills

Repair List

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Leader Windmills

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No. of Cast- ing	Description of Parts	16 and 18-Ft. Mills			20 and 22 1/2-Ft. Mills		
		Size	Symbol	Price	Size	Symbol	Price
1	Tower Cap		D11L	\$ 7.50		E11L	\$20.00
2	Tower Step		D21L	2.40		E21L	2.55
3	Guide Rods, Each	3/8" x 4' 6"	D31L	.75	3/8" x 6' 0"	E31L	1.50
4	Case-Hardened Rings	2 1/16" x 1 1/16"			2 1/16" x 1 1/16"		
			D41L	1.00		E41L	1.00
5	Center Outgear Ring		D51L	1.00		E51L	1.10
6	Upper and Lower Outgear Ring		D61L	1.45		E61L	2.00
7	Long Outgear Chain	1 1/4" x 10' 7/32"	D71L	4.00	1 1/4" x 13' 6"	E71L	5.50
8	Short Outgear Chain	3/16" x 5' 9"	D81L	3.00	1/4" x 7' 7"	E81L	4.00
9	Main Casting		D91L	100.00			90.00
9-1	Main Casting						80.00
9-2	Main Casting Lug		D9-21L	.15		E76L	.15
10	Main Casting Box		D101L	18.50		E101L	26.00
11	Main Casting Cap		D111L	6.15		E111L	8.25
12	Brace Spider		D121L	2.25		E121L	5.00
13	Spider		D131L	11.25		E131L	27.00
14	Face Plate		D14-11L	9.00		E141L	27.00
15	Main Shaft	2 1/8" x 38 1/2"	D15L	10.00	2 3/8" x 47"	E15L	36.00
15	Main Shaft	2 1/8" x 38 1/2"	D15L	10.00	2 3/8" x 54"	E15L	37.50
15-1	Wrist Pin—Under Head	1 3/4" x 6 1/4"	D15-11L	3.00	1 3/4" x 6 1/4"	D15-11L	3.00
16	Sheave Stand		D16L	1.65		E16L	2.00
17	King Bolt	1 1/2" x 6' 5 1/2"	D17L	6.75	1 1/2" x 58"	E17L	27.00
18	Large Vane Brace	1 1/2" x 7' 9"	D18L	12.00	1 1/4" x 7 1/2" x 10' 10 3/4"	D18-11L	70.00
18-1	Vane Brace Rod, bent		D18-11L	4.50			
18-2	Vane Brace Bolt with shoulder				3/4" x 29 3/8"	E18-21L	5.10
18-3	Vane Tail Brace				3/4" x 39"	E18-3L	5.75
18-4	Top Vane Brace Rod, eye each end				1/2" x 10' 6"	E18-4L	4.50
19	Front Brace Casting		D191L	.75			
20	Back Brace Casting		D201L	.90			
22	Side Vane Pedestal		D221L	3.20		E221L	3.75
23	Side Vane Bar	1" x 10' 0"	D231L	4.25	1 1/4" x 12' 0"	E231L	6.50
24	Side Vane Front Brace	7/16" x 6' 8"	D241L	.60	7/16" x 9' 0"	E241L	1.35
25	Side Vane Top Brace	7/16" x 5' 10"	D251L	.60	1/2" x 8' 0"	E251L	1.50
26	Side Vane Back Brace	7/16" x 5' 8"	D261L	.60	7/16" x 9' 0"	E261L	1.35
27	Side Vane Clip		D271L	.75		E271L	.75
27-1	Side Vane U-Bolt	Round	D27-1L	.30	3/16" Round		.40
28	Side Vane Cross Bar Clip		D281L	.75		C9-11L	1.00
29	Outside Front Wheel Clips, Set 8		D291L	2.70		E291L	5.25
30	Inside Front Wheel Clips, Set 8		D301L	.75		E301L	1.00
31	Outside Back Wheel Clips, Set 8		D311L	1.60		E311L	2.25
32	Inside Back Wheel Clips, Set 8		D321L	.50		E321L	.50
33	Wheel Weight		D331L	1.50		E631L	3.00
34	Pump Rod Connection		C341L	2.00		C341L	2.00
35	Pitman	1 1/4" x 12 1/2"	D351L	24.00	1 3/8" x 50 1/8"	E351L	75.00
	Pitman Upper 1/2 Box, Upper End		D891L	1.50		E891L	
	Pitman Upper 1/2 Box, Lower End		D901L	1.80		E901L	3.50
	Pitman Straps				1 3/8" x 3' x 17"		7.50
	Pitman Cast Wedge						1.25
	Pitman Bolt, threaded full length				1/2" x 3 1/2"		.25
36	Pitman Knuckle		D361L	3.00		E361L	7.00
36-1	Pitman Knuckle Pin	1 x 3 3/8"		.50			.50
36-2	Pitman Knuckle Brass Bushing			30.00			1.90
	Pitman Complete, less guide						100.00
37	Pitman Guide				1 1/4" x 25"		2.50
38	Swivel Rod	1" x 3' 8"	D381L	2.40	1 1/4" x 4' 9"	E381L	9.00
38-1	Swivel Collar			.90		E38-11L	1.60
39	Swivel Box		D391L	2.70		E391L	7.50
40	Swivel Box Cap		D401L			E401L	
41	Pull Rods, Each	3/8" x 6' 6"	D411L	1.00	3/4" x 9' 6"	E411L	2.50
42	Small Sheave		D421L	.90		E421L	1.80
43	Large Sheave		D431L	1.50		E431L	1.65
43-1	Large Sheave Pin	7/8" x 2 3/4"	D43-11L	.60	1 3/16" x 3 3/16"	E43-11L	1.25
44	Outgear Crosshead		D441L	2.00		E441L	2.00

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### Repair List

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No. of Casting	Description of Parts	16 and 18-Ft. Mills			20 and 22 1/2-Ft. Mills		
		Size	Symbol	Price	Size	Symbol	Price
46	Weight Box Chain with hook and eye bolt	1 1/2 x 27"	D46L	\$ 2.10	5/16 x 28"	E46L	\$ 2.75
49	Weight Balls, Each		D49L	2.30		D49L	2.30
58	Back Wheel Clips, Set 8					E58L	1.60
59	Front Wheel Clips, Set 8					E59L	1.60
	Oil Cup Cover	Cast	DL	.15	Pressed Sheet		.20
65	Splice Irons for Pump Rod, Per Pair		C29	1.50		E65L	2.25
	Splice Irons for Pull Rod, Per Pair	1 1/2 x 14"		.30			.30
	Guide Blocks, Each						.30
	Reefing Gear		6123	6.50		6123	6.50
	S-Links, Each			.30			.30
66	Take-Up Hook	3/8 x 8"	D66L	.25	7/16 x 8"	E66L	.40
67	Circle Board, Wood only		D67L	4.00		E67L	20.00
68	Circle Board Iron with Stops		D68L	6.00		E68L	13.50
69	Circle Board Iron with Stops and Rod		D69L	7.00		E69L	14.50
70	Circle Board Clip with Hook		D70L	1.00		E70L	2.40
71	Circle Board Clip		D71L	.40		E71L	2.40
72	Circle Board Plate		D72L	.60		E72L	.60
73	Circle Board Brace Rod	3/8 x 38 1/2"	D73L	75	1/2 x 58"	E73L	1.00
74	Circle Board Complete, less brace rod			19.00			50.00
75	Box Fixtures, as packed		16-Ft. Mill	65.00		20-Ft. Mill	95.00
76	Box Fixtures, as packed		18-Ft. Mill	67.00		22 1/2-Ft. Mill	95.00

### Windmill Repair List

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#### Wood Parts—Leader Windmills

Description of Parts	16-Ft. Mill	18-Ft. Mill	20-Ft. Mill Inside Section	20-Ft. Mill Outside Section	22 1/2-Ft. Mill Inside Section	22 1/2-Ft. Mill Outside Section
	Price	Price	Price	Price	Price	Price
Wheel Slats, Each	\$ .60	\$ .65	\$ .40	\$ .70	\$ .60	\$ .75
Wheel Hoops, Short, Each	.90	1.00	2.00	2.00	3.00	3.00
Wheel Hoops, Middle, Each		1.40				
Wheel Hoops, Long, Each	1.50	1.80	2.00	2.00	2.70	4.40
Wheel Sections, Per Set	105.00	115.00	70.00	150.00	120.00	240.00
Wheel Arms, Per Set	15.00	18.00	30.00		34.00	
Wheel Arm Braces, Per Set	9.00	12.00	16.50		20.00	
Wheel Arm Cross Braces, Per Set			2.50		2.50	
Wheel Arm Cross Brace Rods, 3/8 x 18-in. Per Set			1.20		1.20	
Rudder Slats, Each	2.00	2.50	3.00		3.50	
Rudder, Less Stem	29.50	48.00	75.00		100.00	
Rudder Stem	24.00	24.00	45.00		45.00	
Side Vane Slats, Each	.75	.75	.85		.85	
Side Vane, Less Stem	6.50	6.50	8.00		8.00	
Pump Rod, Per Foot	15	15	20		20	
Shifting Rod, Per Foot	10	10	10		10	

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