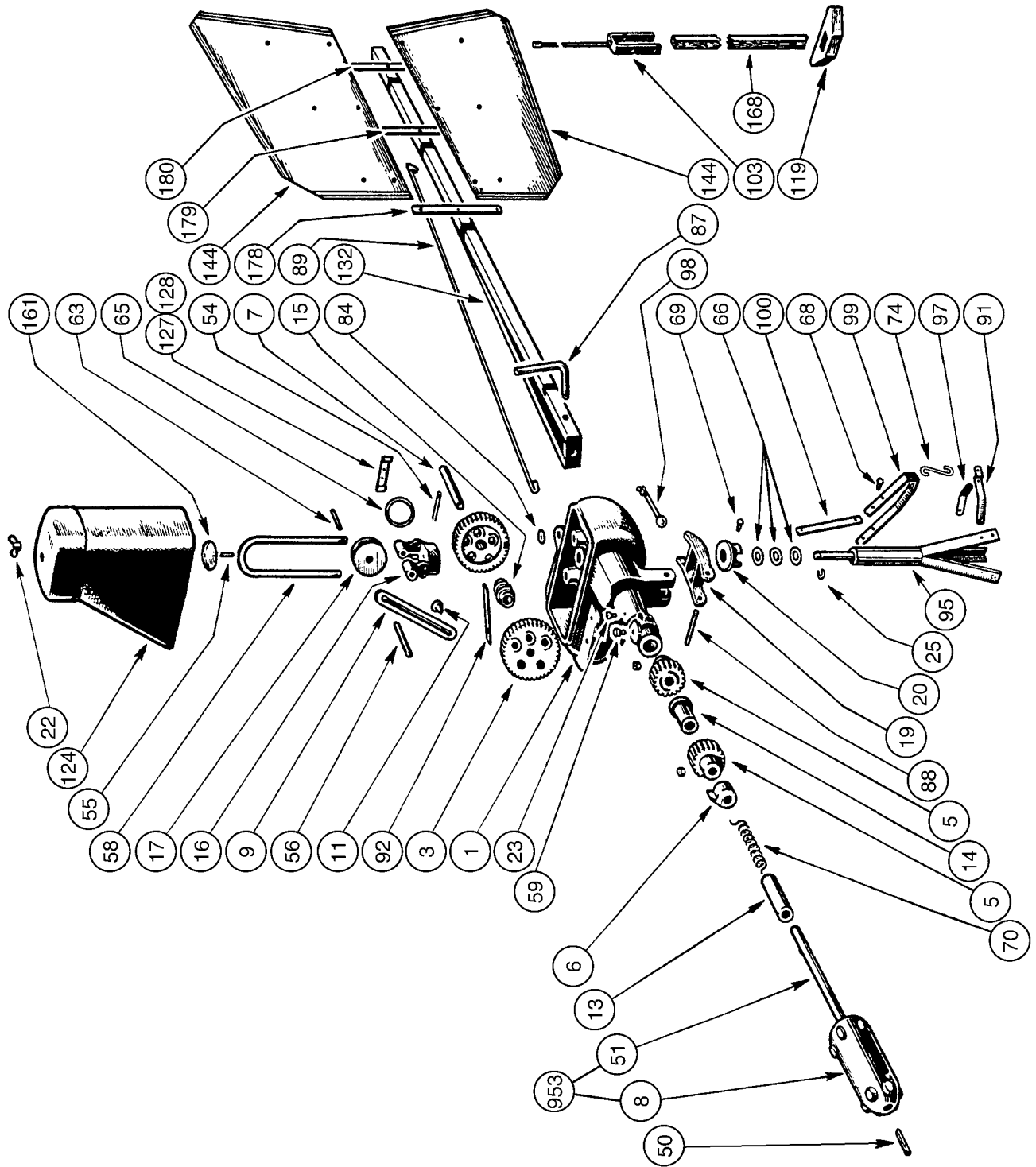




WINDMILLS

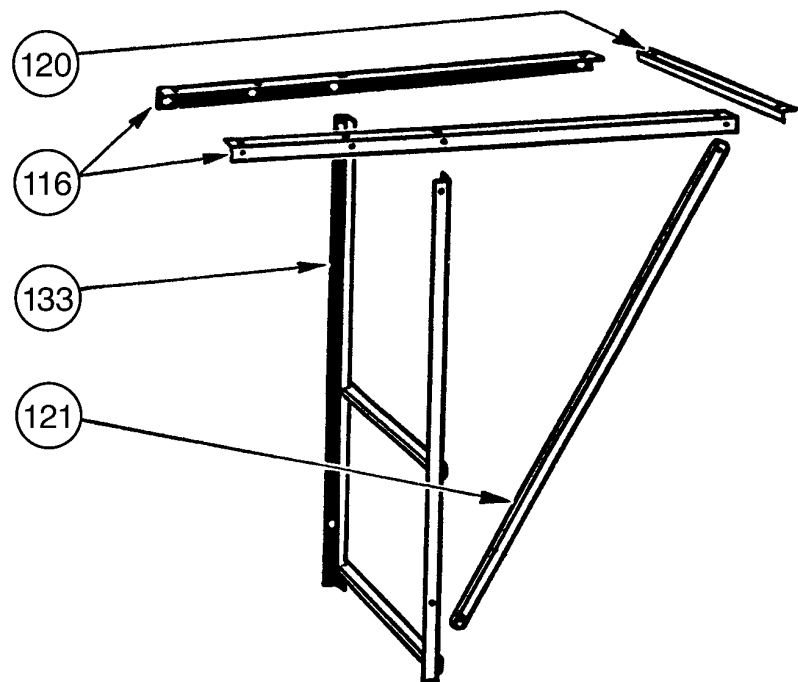
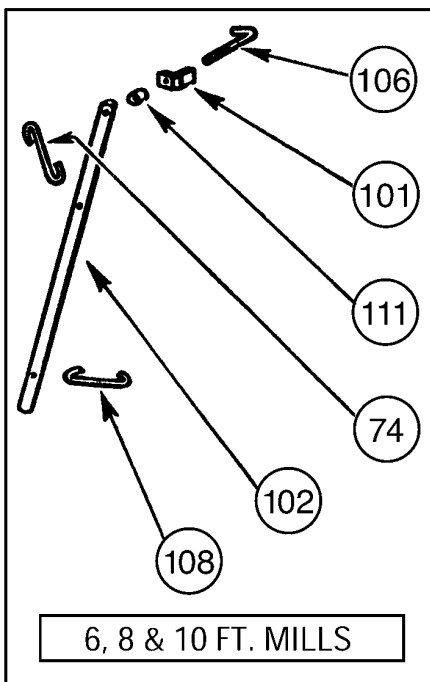
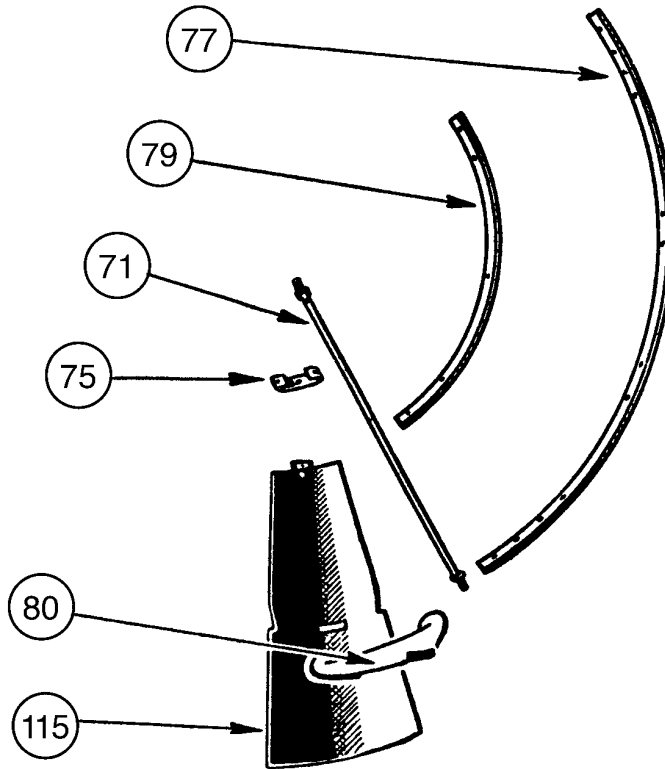
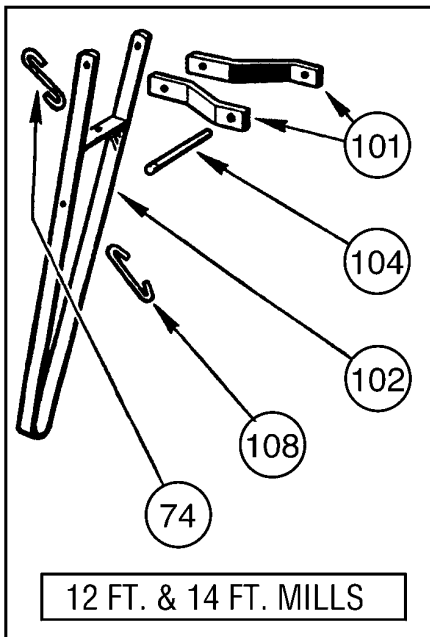
IZ GEARED WINDMILLS





WINDMILLS

IZ GEARED WINDMILLS





WINDMILLS

IZA 6ft GEARED WINDMILLS

Illus No.	No. Per Unit	Part No.	Description
1	1	IZA001J	Gearbox
3	2	IZA003*	Gearwheel
5	2	IZA005M*	Pinion Assembly
6	1	IZA006	Oil Scraper
7	1	IZA007J	Gearwheel Shaft Assembly
8	1	IZA008B	Wheel Hub
9	2	ZA009	Connecting Rod
11	2	ZA011J	Connecting Rod Retaining Plug Assembly
13	1	IZA013	Main Bearing
14	1	IZA014	Pinion Bearing
15	1	IZA015B	Gearwheel Bearing
16	1	ZA016K	Crosshead Assembly
17	1	ZA017B	Crosshead Roller
19	1	IZA019B	Vane Toggle Casting
20	1	ZA020B	Reefing Collar
22	1	ZA022	Helmet Wing Nut
23	1	IZA023	Main Bearing Locking Screw
25	1	ZA025	Turntable Pivot Tube Circlip
51	1	IZA051L	Main Shaft
54	1	ZA054J	Pump Rod Pin Assembly
55	1	ZA055	Brass Stud for Helmet
56	1	ZA056J	Crosshead Pin Assembly
58	1	ZA058J	Guide Bars Assembly
59	1	IZA059	Oil Collector Peg
63	2	ZA063	Guide Bars Fixing Pin
65	2	ZA065C	Crosshead Oil Ring
66	3	ZA066	Turntable Washers
68	4	ZA068	Rivet for Reefing Rocker
69	2	ZA069	Rivet for Reefing Collar
70	1	IZA070	Main Shaft Oiling Spring
71	12	IZA071J	Wheel Arm with Nuts and Washers
74	2	ZA074	Hook for Reefing Rocker
75	6	IZA075J	Inner Ring Bracket Assembly
77	6	ZA077	Outer Ring
79	6	ZA079	Inner Ring
80	18	IZA080	Outer Fan Bracket
	1	IZA081	Reefing Rocker Assembly - 3 Post (Not illus.)
84	1	IZA084	Vane Hinge Pin Washer
87	1	IZA087J	Vane Hinge Pin Assembly
88	1	IZA088J	Toggle Pin Assembly
89	1	IZA089	Vane Stay
91	2	ZA091C	Reefing Rocker Bracket - 3 Post
92	1	ZA092	Gearwheel Bearing Clamp
95	1	IZA095	Stub Tower - 3 Post
97	1	ZA097B	Stub Tower Girt - 3 Post
98	1	IZA098K	Toggle Rod
99	1	ZA099C	Reefing Rocker - 3 Post
100	2	ZA100C	Link to Reefing Collar - 3 Post
101	1	ZA101	Reefing Handle Clip
102	1	IZA102	Reefing Handle

Illus No.	No. Per Unit	Part No.	Description
103	1	ZA103	Pump Rod
106	1	ZA106J	Reefing Handle Hook Bolt
108	1	ZA108B	Reefing Handle Catch
111	1	ZA111	Reefing Handle Collar
115	18	IZA115	Fan Assembly
119	1	IZA119	Wood Guide for Pump Rod - 3 Post
124	1	ZA124B	Helmet
127	1	IZA127	Oil Ring Guide - Right Hand
128	1	IZA128	Oil Ring Guide - Left Hand
132	1	IZA132	Vane Triangle
135	1	IZA135	Wood Guide for Pump Rod - 4 Post
144	2	IZA144	Vane Sheet
147	1	IZA147	Stub Tower - 4 Post
148	2	ZA148B	Reefing Rocker Bracket - 4 Post
149	2	ZA149B	Stub Tower Girt - 4 Post
161	1	ZA161	Guard for Guide Bars
166	1	ZA166B	Reefing Rocker - 4 Post
167	2	ZA167B	Link to Reefing Collar - 4 Post
168	1	IZA168	Wood Pump Rod - 4ft length
169	1	IZA169	Reefing Rocker Assembly - 4 Post (Not illus.)
170	1	IZA170**	Mast Pipe
171	1	ZA171**	Reefing Rocker Bracket
172	1	IZA172**	Wood Pump Rod Guide
173	2	ZA173**	Mast Pipe U-Bolt
178	1	IZA178	Inner Vane Rib
180	1	IZA180	Outer Vane Rib
193	AsReqd	IZA193	Pinion Shim
953	1	IZA953B	Hub & Shaft Assembly
	4	408215302	3/8" x 3/8" B.S.F. Pinion Locking Screw
	1	W500	IZA Gearbox Assembly Complete
	1	W501	IZA Wind Wheel Assembly
	1	W502	IZA Vane Triangle Assembly
	1	W503	IZA 3 Post Stub Tower Assembly
	1	W504	IZA 4 Post Stub Tower
	1	W035J	IZA Wooden Platform



WINDMILLS

IZB 8ft GEARED WINDMILLS

Illus No.	No. Per Unit	Part No.	Description
1	1	IZB001J	Gearbox
3	2	IZB003*	Gearwheel
5	2	IZB005M*	Pinion Assembly
6	1	IZB006	Oil Scraper
7	1	IZB007J	Gearwheel Shaft Assembly
8	1	IZB008B	Wheel Hub
9	2	ZB009	Connecting Rod
11	2	ZB011J	Connecting Rod Retaining Plug Assembly
13	1	IZB013	Main Bearing
14	1	IZB014	Pinion Bearing
15	1	IZB015B	Gearwheel Bearing
16	1	ZB016J	Crosshead Assembly
17	1	ZB017	Crosshead Roller
19	1	IZB019B	Vane Toggle Casting
20	1	ZB020	Reefing Collar
22	1	ZA022	Helmet Wing Nut
23	1	IZA023	Main Bearing Locking Screw
25	1	ZB025	Turntable Pivot Tube Circlip
51	1	IZB051L	Main Shaft
54	1	ZB054J	Pump Rod Pin Assembly
55	1	ZB055	Brass Stud for Helmet
56	1	ZB056J	Crosshead Pin Assembly
58	1	ZB058J	Guide Bars Assembly
59	1	ZB059	Oil Collector Peg
63	2	ZB063	Guide Bars Fixing Pin
65	2	ZB065B	Crosshead Oil Ring
66	3	ZB066	Turntable Washers
68	4	ZA068	Rivet for Reefing Rocker
69	2	ZA069	Rivet for Reefing Collar
70	1	IZB070	Main Shaft Oiling Spring
71	12	IZB071J	Wheel Arm with Nuts and Washers
74	2	ZA074	Hook for Reefing Rocker
75	6	IZB075J	Inner Ring Bracket Assembly
77	6	ZB077	Outer Ring
79	6	ZB079	Inner Ring
80	18	IZB080	Outer Fan Bracket
	1	IZB081	Reefing Rocker Assembly - 3 Post (Not illus.)
84	1	IZB084	Vane Hinge Pin Washer
87	1	IZB087J	Vane Hinge Pin Assembly
88	1	IZB088J	Toggle Pin Assembly
89	1	IZB089	Vane Stay
91	2	ZA091C	Reefing Rocker Bracket - 3 Post
92	1	ZB092	Gearwheel Bearing Clamp
95	1	IZB095	Stub Tower - 3 Post
97	1	ZB097B	Stub Tower Girt - 3 Post
98	1	IZB098K	Toggle Rod
99	1	ZB099B	Reefing Rocker - 3 Post
100	2	ZB100B	Link to Reefing Collar - 3 Post
101	1	ZA101	Reefing Handle Clip
102	1	IZB102	Reefing Handle

Illus No.	No. Per Unit	Part No.	Description
103	1	ZB103	Pump Rod
106	1	ZA106J	Reefing Handle Hook Bolt
108	1	ZA108B	Reefing Handle Catch
111	1	ZA111	Reefing Handle Collar
115	18	IZB115	Fan Assembly
119	1	IZA119	Wood Guide for Pump Rod - 3 Post
124	1	ZB124B	Helmet
127	1	IZB127	Oil Ring Guide - Right Hand
128	1	IZB128	Oil Ring Guide - Left Hand
132	1	IZB132	Vane Triangle
135	1	IZA135	Wood Guide for Pump Rod - 4 Post
144	2	IZB144	Vane Sheet
147	1	IZB147	Stub Tower - 4 Post
148	2	ZA148B	Reefing Rocker Bracket - 4 Post
149	2	ZA149B	Stub Tower Girt - 4 Post
161	1	ZA161	Guard for Guide Bars
166	1	ZB166B	Reefing Rocker - 4 Post
167	2	ZB167B	Link to Reefing Collar - 4 Post
168	1	IZA168	Wood Pump Rod - 4ft length
169	1	IZB169	Reefing Rocker Assembly - 4 Post (Not illus.)
178	1	IZB178	Inner Vane Rib
179	1	IZB179	Intermediate Vane Rib - Short
180	1	IZB180	Outer Vane Rib
193	As Req'd	IZB193	Pinion Shim
953	1	IZB953B	Hub & Shaft Assembly
	4	408215302	3/8" x 3/8" B.S.F. Pinion Locking Screw
	1	W510	IZB Gearbox Assembly Complete
	1	W511	IZB Wind Wheel Assembly
	1	W512	IZB Vane Triangle Assembly
	1	W513	IZB 3 Post Stub Tower Assembly
	1	W514	IZB 4 Post Stub Tower
	1	W035J	IZA Wooden Platform



WINDMILLS

IZC 10ft GEARED WINDMILLS

Illus No.	No. Per Unit	Part No.	Description
1	1	IZC001J	Gearbox
3	2	IZC003*	Gearwheel
5	2	IZC005M*	Pinion Assembly
6	1	IZC006	Oil Scraper
7	1	IZC007J	Gearwheel Shaft Assembly
8	1	IZC008	Wheel Hub
9	2	ZC009	Connecting Rod
11	2	ZC011J	Connecting Rod Retaining Plug Assembly
13	1	IZC013	Main Bearing
14	1	IZC014	Pinion Bearing
15	1	IZC015B	Gearwheel Bearing
16	1	ZC016J	Crosshead Assembly
17	1	ZC017	Crosshead Roller
19	1	IZC019	Vane Toggle Casting
20	1	ZC020	Reefing Collar
22	1	ZA022	Helmet Wing Nut
23	1	IZC023	Main Bearing Locking Screw
25	1	ZC025	Turntable Pivot Tube Circlip
50	1	ZC050	Wheel Hub Key
51	1	IZC051K	Main Shaft
54	1	ZC054J	Pump Rod Pin Assembly
55	1	ZC055	Brass Stud for Helmet
56	1	ZC056J	Crosshead Pin Assembly
58	1	ZC058J	Guide Bars Assembly
59	1	IZC059	Oil Collector Peg
63	2	ZC063	Guide Bars Fixing Pin
65	2	ZC065B	Crosshead Oil Ring
66	3	ZC066	Turntable Washers
68	4	ZC068	Rivet for Reefing Rocker
69	2	ZC069	Rivet for Reefing Collar
70	1	IZC070	Main Shaft Oiling Spring
71	12	IZC071J	Wheel Arm with Nuts and Washers
74	2	ZC074	Hook for Reefing Rocker
75	6	IZC075J	Inner Ring Bracket Assembly
77	6	ZC077	Outer Ring
79	6	ZC079	Inner Ring
80	18	IZC080	Outer Fan Bracket
	1	IZC081	Reefing Rocker Assembly - 3 Post (Not illus.)
84	1	IZC084	Vane Hinge Pin Washer
87	1	IZC087J	Vane Hinge Pin Assembly
88	1	IZC088J	Toggle Pin Assembly
89	1	IZC089	Vane Stay
91	2	ZC091B	Reefing Rocker Bracket - 3 Post
92	1	ZC092	Gearwheel Bearing Clamp
95	1	IZC095	Stub Tower - 3 Post
97	1	ZC097B	Stub Tower Girt - 3 Post
98	1	IZC098	Toggle Rod
99	1	ZC099B	Reefing Rocker - 3 Post
100	2	ZC100B	Link to Reefing Collar - 3 Post
101	1	ZA101	Reefing Handle Clip
102	1	IZC102	Reefing Handle

Illus No.	No. Per Unit	Part No.	Description
103	1	ZC103	Pump Rod
106	1	ZA106J	Reefing Handle Hook Bolt
108	1	ZA108B	Reefing Handle Catch
111	1	ZA111	Reefing Handle Collar
115	18	IZC115	Fan Assembly
116	2	ZC116	Ladder Bracket
119	1	IZC119	Wood Guide for Pump Rod - 3 Post
120	1	ZC120	Ladder Bracket Stay
121	2	ZC121	Ladder Stay
124	1	IZC124	Helmet
127	1	IZC127	Oil Ring Guide - Right Hand
128	1	IZC128	Oil Ring Guide - Left Hand
132	1	IZC132	Vane Triangle
133	1	ZC133	Rotating Ladder
135	1	IZC135	Wood Guide for Pump Rod - 4 Post
144	2	IZC144	Vane Sheet
147	1	IZC147	Stub Tower - 4 Post
148	2	ZC148B	Reefing Rocker Bracket - 4 Post
149	2	ZC149B	Stub Tower Girt - 4 Post
161	1	ZA161	Guard for Guide Bars
166	1	ZC166B	Reefing Rocker - 4 Post
167	2	ZC167B	Link to Reefing Collar - 4 Post
168	1	IZC168	Wood Pump Rod - 4ft length
169	1	IZC169	Reefing Rocker Assembly - 4 Post (Not illus.)
178	1	IZC178	Inner Vane Rib
179	1	IZC179	Intermediate Vane Rib - Short
180	1	IZC180	Outer Vane Rib
193	As Req'd	IZC193	Pinion Shim
953	1	IZC953B	Hub & Shaft Assembly
	4	408611557	M12 x 12 Pinion Locking Screw
	1	W520	IZC Gearbox Assembly Complete
	1	W521	IZC Wind Wheel Assembly
	1	W522	IZC Vane Triangle Assembly
	1	W523	IZC 3 Post Stub Tower Assembly
	1	W524	IZC 4 Post Stub Tower
	1	W044J	IZC Wooden Platform

**WINDMILLS****IZD 12ft GEARED WINDMILLS**

Illus No.	No. Per Unit	Part No.	Description
1	1	IZD001J	Gearbox
3	2	IZD003*	Gearwheel
5	2	IZD005M*	Pinion Assembly
6	1	IZD006	Oil Scraper
7	1	IZD007J	Gearwheel Shaft Assembly
8	1	IZD008	Wheel Hub
9	2	ZD009	Connecting Rod
11	2	ZD011J	Connecting Rod Retaining Plug Assembly
13	1	IZD013	Main Bearing
14	1	IZD014	Pinion Bearing
15	1	IZD015B	Gearwheel Bearing
16	1	ZD016J	Crosshead Assembly
17	1	ZD017	Crosshead Roller
19	1	IZD019	Vane Toggle Casting
20	1	ZD020	Reefing Collar
22	1	ZD022	Helmet Wing Nut
23	1	IZC023	Main Bearing Locking Screw
25	1	ZD025	Turntable Pivot Tube Circlip
50	1	ZD050	Wheel Hub Key
51	1	IZD051K	Main Shaft
54	1	ZD054J	Pump Rod Pin Assembly
55	1	ZD055	Brass Stud for Helmet
56	1	ZD056J	Crosshead Pin Assembly
58	1	ZD058J	Guide Bars Assembly
59	1	IZD059	Oil Collector Peg
63	2	ZD063	Guide Bars Fixing Pin
65	2	ZD065B	Crosshead Oil Ring
66	3	ZD066	Turntable Washers
68	4	ZC068	Rivet for Reefing Rocker
69	2	ZC069	Rivet for Reefing Collar
70	1	IZD070	Main Shaft Oiling Spring
71	12	IZD071J	Wheel Arm with Nuts and Washers
74	2	ZC074S	Hook for Reefing Rocker
75	6	IZD075J	Inner Ring Bracket Assembly
77	6	ZD077	Outer Ring
79	6	ZD079	Inner Ring
80	18	IZD080	Outer Fan Bracket
	1	IZD081	Reefing Rocker Assembly - 3 Post (Not illus.)
84	1	IZD084	Vane Hinge Pin Washer
87	1	IZD087J	Vane Hinge Pin Assembly
88	1	IZD088K	Toggle Pin Assembly
89	1	IZD089	Vane Stay
91	2	ZD091BS	Reefing Rocker Bracket - 3 Post
92	1	ZD092	Gearwheel Bearing Clamp
95	1	IZD095	Stub Tower - 3 Post
97	1	ZD097B	Stub Tower Girt - 3 Post
98	1	IZD098J	Toggle Rod
99	1	IZD099S	Reefing Rocker - 3 Post
100	2	IZD100	Link to Reefing Collar - 3 Post
101	2	ZD101B	Reefing Handle Clip
102	1	ZD102	Reefing Handle

Illus No.	No. Per Unit	Part No.	Description
103	1	ZD103	Pump Rod
104	1	ZD104	Reefing Handle Pin
108	1	ZA108BS	Reefing Handle Catch
115	18	IZD115	Fan Assembly
116	2	ZC116	Ladder Bracket
119	1	IZC119	Wood Guide for Pump Rod - 3 Post
120	1	ZC120	Ladder Bracket Stay
121	2	ZC121	Ladder Stay
124	1	IZD124	Helmet
127	1	IZD127	Oil Ring Guide - Right Hand
128	1	IZD128	Oil Ring Guide - Left Hand
132	1	IZD132	Vane Triangle
133	1	ZC133	Rotating Ladder
135	1	IZC135	Wood Guide for Pump Rod - 4 Post
144	2	IZD144	Vane Sheet
147	1	IZD147	Stub Tower - 4 Post
148	2	ZD148B	Reefing Rocker Bracket - 4 Post
149	2	ZD149B	Stub Tower Girt - 4 Post
161	1	ZD161	Guard for Guide Bars
166	1	IZD166S	Reefing Rocker - 4 Post
167	2	IZD167	Link to Reefing Collar - 4 Post
168	1	IZC168	Wood Pump Rod - 4ft length
169	1	IZD169	Reefing Rocker Assembly - 4 Post (Not illus.)
178	1	IZD178	Inner Vane Rib
179	1	IZD179	Intermediate Vane Rib - Short
180	1	IZD180	Outer Vane Rib
193	As Req'd	IZD193	Pinion Shim
953	1	IZD953B	Hub & Shaft Assembly
	4	408621608	M16 x 16 Pinion Locking Screw
	1	W530	IZD Gearbox Assembly Complete
	1	W531	IZD Wind Wheel Assembly
	1	W532	IZD Vane Triangle Assembly
	1	W533	IZD 3 Post Stub Tower Assembly
	1	W534	IZD 4 Post Stub Tower
	1	W044J	IZC Wooden Platform



WINDMILLS

IZE 14ft GEARED WINDMILLS

Illus No.	No. Per Unit	Part No.	Description
1	1	IZE001J	Gearbox
3	2	IZD003*	Gearwheel
5	2	IZE005M*	Pinion Assembly
6	1	IZE006	Oil Scraper
7	1	IZD007J	Gearwheel Shaft Assembly
8	1	IZE008	Wheel Hub
9	2	ZD009	Connecting Rod
11	2	ZD011J	Connecting Rod Retaining Plug Assembly
13	1	IZE013	Main Bearing
14	1	IZE014	Pinion Bearing
15	1	IZD015B	Gearwheel Bearing
16	1	ZD016J	Crosshead Assembly
17	1	ZD017	Crosshead Roller
19	1	IZE019	Vane Toggle Casting
20	1	ZE020	Reefing Collar
22	1	ZD022	Helmet Wing Nut
23	1	IZC023	Main Bearing Locking Screw
25	1	ZD025	Turntable Pivot Tube Circlip
50	1	ZE050	Wheel Hub Key
51	1	IZE051K	Main Shaft
54	1	ZD054J	Pump Rod Pin Assembly
55	1	ZD055	Brass Stud for Helmet
56	1	ZD056J	Crosshead Pin Assembly
58	1	ZD058J	Guide Bars Assembly
59	1	IZD059	Oil Collector Peg
63	2	ZD063	Guide Bars Fixing Pin
65	2	ZD065B	Crosshead Oil Ring
66	3	ZD066	Turntable Washers
68	4	ZC068	Rivet for Reefing Rocker
69	2	ZC069	Rivet for Reefing Collar
70	1	IZE070	Main Shaft Oiling Spring
71	16	IZE071J	Wheel Arm with Nuts and Washers
74	2	ZC074	Hook for Reefing Rocker
75	8	IZD075J	Inner Ring Bracket Assembly
77	8	ZE077	Outer Ring
79	8	ZE079	Inner Ring
80	24	IZD080	Outer Fan Bracket
	1	IZE081	Reefing Rocker Assembly - 3 Post (Not illus.)
84	1	IZD084	Vane Hinge Pin Washer
87	1	IZD087J	Vane Hinge Pin Assembly
88	1	IZD088K	Toggle Pin Assembly
89	1	IZE089B	Vane Stay
91	2	ZD091B	Reefing Rocker Bracket - 3 Post
92	1	ZD092	Gearwheel Bearing Clamp
95	1	IZE095	Stub Tower - 3 Post
97	1	ZE097B	Stub Tower Girt - 3 Post
98	1	IZE098J	Toggle Rod
99	1	IZE099	Reefing Rocker - 3 Post
100	2	ZE100B	Link to Reefing Collar - 3 Post
101	2	ZD101B	Reefing Handle Clip
102	1	ZD102	Reefing Handle

Illus No.	No. Per Unit	Part No.	Description
103	1	ZD103	Pump Rod
104	1	ZD104	Reefing Handle Pin
108	1	ZA108B	Reefing Handle Catch
	1	IZE110	Vane Stay Spacer (Not illus.)
115	24	IZD115	Fan Assembly
116	2	ZC116	Ladder Bracket
119	1	IZC119	Wood Guide for Pump Rod - 3 Post
120	1	ZC120	Ladder Bracket Stay
121	2	ZC121	Ladder Stay
124	1	IZD124	Helmet
127	1	IZD127	Oil Ring Guide - Right Hand
128	1	IZD128	Oil Ring Guide - Left Hand
132	1	IZE132	Vane Triangle
133	1	ZC133	Rotating Ladder
135	1	IZC135	Wood Guide for Pump Rod - 4 Post
144	2	IZE144	Vane Sheet
147	1	IZE147	Stub Tower - 4 Post
148	2	ZD148B	Reefing Rocker Bracket - 4 Post
149	2	ZD149B	Stub Tower Girt - 4 Post
161	1	ZD161	Guard for Guide Bars
166	1	IZE166	Reefing Rocker - 4 Post
167	2	ZE167B	Link to Reefing Collar - 4 Post
168	1	IZC168	Wood Pump Rod - 4ft length
169	1	IZE169	Reefing Rocker Assembly - 4 Post (Not illus.)
178	1	IZE178	Inner Vane Rib
179	1	IZE179	Intermediate Vane Rib - Short
180	1	IZE180	Outer Vane Rib
181	1	IZE181	Intermediate Vane Rib - Long
193	As Req'd	IZE193	Pinion Shim
953	1	IZE953B	Hub & Shaft Assembly
	4	408621608	M16 x 16 Pinion Locking Screw
	1	W540	IZE Gearbox Assembly Complete
	1	W541	IZE Wind Wheel Assembly
	1	W542	IZE Vane Triangle Assembly
	1	W543	IZE 3 Post Stub Tower Assembly
	1	W544	IZE 4 Post Stub Tower
	1	W044J	IZC Wooden Platform