



PARTS IDENTIFICATION

#	QTY	DESCRIPTION	# MANARAS	REV
F	1	FRAME	FRAME025	F
2	1	CONTROL BOX	CBOX009	P
3	1	CONTROL BOX COVER	COVER009	C
4	1	OUTPUT SHAFT (DRIVE SHAFT)	SHAFT049	B
5	1	INTERMEDIATE SHAFT	SHAFT023	.
6	1	INPUT SHAFT	SHAFT034	G
7	1	LIMIT SHAFT	SHAFT105	.
8	1	ROD	ROD015	C
9	1	REINFORCING BRACKET	PLATE044	.
10	1	REINFORCING BRACKET / CHAIN GUIDE	PLATE043	.
11	1	BRAKE SUPPORT PLATE	PLATE076	F
12	1	BRAKE ADJUSTMENT LEVER	LEVER064	B
13	1	BRAKE LEVER	LEVER065	F
14	1	CABLE HOOK	BRACKET1177	A
15	1	TORQUE LIMITER LEVER	LEVER054	E
16	1	LIMIT SWITCH LEVER	LEVER066	J
18	1	TERMINAL STRIP SUPPORT	BRACKET037	E
19	1	MOTOR PULLEY	PULLEY012	.
20	1	DRIVEN PULLEY	PULLEY003	.
21	1	BRAKE BAND	BRAKE PART017	.
22	1	BRAKE DRUM	DRUM004	D
23	1	SOLENOID COVER	COVER022	A
26	1	BALL BEARING SPACER	SPACER006	A
27	1	FRICITION DISC	CLUTCHPLATE002	.
28	1	TORQUE LIMITER DISC	CLUTCHPLATE004	A
29	1	CAMPLATE	CAMPLATE012	D
30	2	CAM	CAM005	C
50	1	MOTOR 1/2 HP 115V 1PH	MOTOR 010	.
51	2	9 TEETH 410 SPROCKET	SPR410B9X5/8	.
52	1	23 TEETH 41 SPROCKET	SPR41B23X1	.
53	1	23 TEETH 41 SPROCKET	SPR41B23X5/8	.
54	2	9 TEETH 41 SPROCKET	SPR41B9X5/8	.
55	2	1" BALL BEARING	BEARING007	.
56	6	.625 BALL BEARING	BEARING005	.
57	2	THRUST BEARING	BEARING033	.
58	1	1" COLLAR	COLLAR007	.
59	2	5/8 COLLAR	COLLAR004	.
60	1	1/4 COLLAR	COLLAR001	B
100	1	SOLENOID 120 V	SOLENOID001	.
101	1	TELEM.REVERS.CONT.24V	CONTACTOR044	.
102	1	TRANSFORMER 120 V - 24 V 40 VA	TRANSFO005	.
103	1	RESET 10 AMP	RESETO07	.
104	4	LIMIT SWITCH	LIMIT015	A
105	1	2 POLE RELAY 24 V	RELAY024	.
106	1	2 POLE RELAY 120 V	RELAY026	.
107	1	TERMINAL STRIP 12 POSITION	TSTRIP001	.
108	1	RADIO CONTROL TERMINAL STRIP	TSTRIP005	.
110	1	FUSE 2 AMP (NOT SHOWN)	FUSE006	.
111	1	GROUND LUG	CONNECTOR039	.
112	1	V-BELT 4L360	VBELT4L360	.
150	2	1" COMPRESSION SPRING	SPRING001	.
151	1	TORQUE LIMITER SPRING	SPRING032	.
152	1	TENSION SPRING	SPRING026	.
153	1	BRASS BUSHING	BUSHING025	.
154	1	LEVER PIVOT	BUSHING053	C
156	2	HEX BOLT 1/4-20UNC X 1 1/2	BOLT008	.
157	4	CARRIAGE BOLT 5/16-18UNC X 3/4	BOLT093	.
159	1	CARRIAGE BOLT 1/4 X 1	BOLT077	.
160	4	CARRIAGE BOLT 1/4 X 1 1/4	BOLT083	C
161	2	HEX NUT 6-32UNC	NUT002	.
162	6	HEX NUT 8-32UNC	NUT003	.
163	8	HEX NUT 25-20UNC	NUT006	.
164	4	HEX NUT 5/16-24UNC	NUT007	.
165	4	HEX NUT 5/8-24UNEF	NUT015	.
166	4	LOCK NUT 6-32UNC	NUT018	.
167	1	LOCK NUT 10-32UNF	NUT019	.
168	6	LOCK NUT 1/4-20UNC	NUT020	.
170	8	HEX SET SCREW 1/4-28UNF X 1/4	SCREW002	.
171	10	HEX SET SCREW 5/16-18UNC X 5/16	SCREW003	.
172	11	SELF TAPPING SCREW 6-32X3/8 F	SCREW094	.
175	2	SELF TAPPING 10-24UNC X 3/8	SCREW022	.
178	1	SPRING RETAINING SCREW	SCREW042	.
183	1	HEX HD SET SCREW 10-24 X 1/4	SCREW089	.
182	2	ROUND HEAD BOLT .25-20UNC X 3	SCREW061	.
181	1	ROUND HD SCREW 10-32 X 1/2	SCREW054	.
180	6	SCREW 8-32UNC X 3/8	SCREW049	.
179	4	SCREW #6-32 X 2	SCREW045	.
176	4	SELF TAPPING 20-24UNC X 3/4	SCREW023	.
201	2	HEX NUT 5/8-18UNC	NUT013	.
200	2	KEYWAY 3/16 X 3/4	KW010	.
199	1	COTTER PIN	PIN001	.
198	1	CHAIN LINK	LINK011	.
197	1	KJ KEY .250 SQ X 1.0 LO	KW021	A
196	1	KEY 3/16 X 3/16 X 2 7/8	KW032	.
195	1	MACHINED WASHER	WASHER055	.
194	4	RUBBER WASHER	WASHER052	.
193	4	LOCK WASHER 5/16	WASHER028	.
192	4	LOCK WASHER 1/4	WASHER026	.
191	8	LOCK WASHER #10	WASHER025	.
190	2	LOCK WASHER #8	WASHER024	.
189	5	LOCKWASHER #6	WASHER023	.
188	2	WASHER 5/8 THICK	WASHER019	.
185	1	WASHER	WASHER006	.
184	6	SELF TAPPING SCREW 6-32UNC X 5/8	SCREW095	.

THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO MANARAS AUTO DOORS INC. AND SHALL NOT BE REPRODUCED OR DISCLOSED OR USED FOR ANY DESIGN OR MANUFACTURE EXCEPT WHEN USER POSSESSES DIRECT WRITTEN AUTHORIZATION FROM MANARAS AUTO DOORS INC.

DATE: MJ

DESIGN BY: MARTINE_BEAUCHEMIN DATE: 1999.12.22 DWG FILE: MJ-X REV: - DATE: 2005.02.18

MANARAS-OPERA
136 ONEDA DRIVE
POINTE-CLAIRE, QC, H9R 1A8
TEL: 1-800-361-2260
FAX: 1-888-626-0606