



PARTS IDENTIFICATION		# MANARAS		REV
QTY	DESCRIPTION			
132	1 COTTER PIN 1/8 X 1-1/2	PIN001		
133	2 CABLE CLAMP 3/16"	CLIP018		
146	1 CABLE SLEEVE 1/16"	SLEEVE001		
147	1 SQUARE KEY 3/16 X 1.5 LG	KW013	A	2
148	4 HEX NUT 10-32UNF ZC	NUT005		3
149	6 HEX NUT 6/32	NUT002		4
150	4 HEX HD .250-20UNC X .75	BOLT002		5
151	16 CARRIAGE BOLT 5/16-18UNC X 3/4	BOLT093		6
152	8 CARRIAGE BOLT 3/8 X 1 1/4	BOLT059		7
153	8 3/8 inch nuts	NUT010		8
154	18 HEX NUT 5/16-18UNC	NUT007		9
155	NYLON LOCK NUT 6-32UNC	NUT018		10
156	4 NUT 250-20 UNC	NUT006		11
157	7 NYLON LOCK NUT 1/4-20UNC	NUT020		12
158	2 LIMIT SHAFT LOCK NUT 5/8-18ZP	NUT013		13
159	2 SET SCREW 1/4-28-1/4	SCREW002		14
160	8 SET SCREW 5/16-18UNC X 5/16	SCREW003		15
161	4 MACHINE SCREW 10-32 X 3/8	SCREW053		16
162	4 MACHINE SCREW 6-32 X 2 1/2	SCREW046		17
163	1 MTBH ROUND HD SCREW 8/32 X 3/8	SCREW049		18
164	2 SELF TAPPING SCREW #10 24 X3/8	SCREW022		19
165	15 SELF TAPPING 6-32UNC X 3/8	SCREW094		20
166	6 SELF TAPPING 6-32UNC X 5/8	SCREW095		21
167	2 SELF TAPPING SCREW 6-32X7/8" F	SCREW096		22
168	4 SELF TAPPING SCREW 10-24 X 1/2	SCREW067		23
169	12 LIMIT SWITCH SPACER 1/4 X 1/4	SPACER001		24
170	5 FW 1/4BS3/16 250x.562x.48	WASHER003		25
171	16 FLAT WASHER .312 X .734 X .065	WASHER007		26
172	3 FLAT WASHER .656 X 1.312 X .095	WASHER014		27
173	4 FW 3/8 BS 5/16(.375X.875X.083)	WASHER008		28
174	18 LOCK WASHER 5/16	WASHER028		29
175	2 BELLEVEILLE WASHER 5/8	WASHER035		30
176	8 FLAT WASHER 7/8	WASHER030		31
177	1 KEY .188 X 2-1/2 (INCL. W/ MOTOR)	WASHER030		32
178	1 KJ KEY .250 SQ X 1.0 LO	KW021	A	33
179	1 KEY 3/16 X 1/2	KW031	C	34
180	1 SPRING PIN 1/4 X 1-3/4	PIN020		50
181	1 SPRING PIN 5/16 X 2	PIN021		51
182	1 EXTENSION SPRING E480-083-3275	SPRING027		52
183	2 CAM GUIDE PLATE SPRING C260047	SPRING001		53
184	1 PUSH NUT 1/4"	CLIP016		54

PARTS IDENTIFICATION		# MANARAS		REV
QTY	DESCRIPTION			
55	1 COLLAR 1"	COLLAR007		
56	1 FLANGED BEARING 1"	BEARING007		
57	1 32 TOOTH 41 SPROCKET	SPR41B32X1PH5/16	B	
58	1 14 TOOTH 410 SPROCKET	SPR410B14X.75		
59	1 SPR410B18X1 K1/4 235	SPR410B18X1		
60	1 SPR410B35X1/8 K3/4 2551/4	SPR410B35X1/8		
61	1 CHAIN 41 48P (WITH CHAIN LINK)	CHAIN058		
62	2 CHAIN 410 48P (WITH CHAIN LINK)	CHAIN058		
63	1 SPACER	SPACER009	A	
64	1 COLLAR 3/4	COLLAR008	A	
65	1 COLLAR 3/4	COLLAR005		
66	2 LIMIT SHAFT LOCK NUT 5/8-24	NUT015		
67	1 RELAY 120V OR 240V DPDT	CHAIN002		
68	42 P chain #410, 500' roll	SPR140B42X1/8	A	
100	1 RESET	RESETxxx		
101	4 SINGLE LIM.SW.+LEVER	LIMIT001		
102	1 CONTACTOR	CONTACTOR044		
103	1 GROUND LUG	CONNECTOR039		
104	1 TERMINAL STRIP	TSTRIP001		
105	1 RELAY 120V OR 240V DPDT	RELAY026		
106	1 RELAY 24V DPDT	RELAY024		
107	1 TRANSFO 120/240-24 40VA	TRANSF143		
108	1 BRAKE DRUM 5/8 WITH GROOVE	DRUM004	D	
109	1 BX CONNECTOR WATERTIGHT 4950P	ADAPTER006		
110	1 RX CONNECTOR WATERTIGHT 90 DEG	ADAPTER007		
111	1 BRAKE SHOE ASS FOR STD BRAKE	BRACKPART017		
112	1 BRAKE PLATE NEMA NEW SYSTEM	PLATE075	G	
113	1 MJ/MIH ADJUSTMENT BRAKE LEVER	BEARING054	C	
114	1 BRAKE LEVER NEMA 4/12,4X	LEVER084		
115	1 BRAKE LEVER PIVOT	BUSHING053	C	
116	1 TELEMEC LIMIT SWITCH	UTIL025		
118	1 SOLENOID	SOLENOIDxxx		
119	1 TROLLEY ARM DISCONNECT SPRING	SPRING026		
120	1 #50 CONNECTING LINK 50-1	LINK011		
121	1 HEX HEAD BOLT 1/4 X 1-1/2	BOLT008		
122	2 HEX HEAD BOLT 5/16 X 5/8	BOLT018		
123	1 CARRIAGE BOLT 1/4 X 1 1/4	BOLT083		
124	4 LOCK WASHER #10	WASHER025		
125	4 LOCK WASHER 1/4	WASHER026		
126	1 7X7 1/16"X33"C/W STOP	CABLE026		
127	1 DISCONNECT CHAIN	CHAIN082		
128	2 "H" HOOK	HOOK001		
129	1 SINGLE SWIVEL PULLEY 1.0	PULLEY016		
130	1 CABLE BUSHING DRILLED 1/4 X 3	BUSHING024		
131	10 CABLE HOSE OD 3/16"	CABLE027		

QTY	DESCRIPTION	# MANARAS	REV
PARTS IDENTIFICATION NOT SHOWN			
1	OPF-SH INSTR MAN+ECB'E	BOOK060	
10	8-2650 LIQUID TIGHT TUBING	BAG002	
4	INSULATED SPADE TERMINAL 250	CONNECTOR011	
1	2 AMP FUSE ACC	FUSE008	
1	MOTOR HARNESS MJH 1 PHASE	HARNESS010	A
1	STD CBOX 1PH.,110 CONN	HARNESS049	A
1	LINK # 65 410-1	LINK002	
1	3 BUTTON STATION C4 DANFOSS	STATION031	
1	STICKER 2 AMP FUSE B&W	STICKER003	
1	1.2.....9 1/4" X 4"	STICKER034	
1	"LN" 7/8" X 1/2"	STICKER035	
1	B2/C2 HW STICKER	STICKER059	
2	WIRE NUT ORANGE 73B	WIRENUT001	
24	WIRE WHITE 18 GAUGE 16 STRAND	WIREC024	

196	1 MACHINE SCREW 6-32 X 3/4	SCREW041	
195	2 fw 7/32bs10(.219X.5X.049)	WASHER046	
194	1 OILITE WASHER 5/8 X 1	WASHER057	
193	2 FLAT WASHER 5/8	BEARING024	
192	1 FW 3/16BSB (.188X.438X.049)	WASHER002	
189	5 LOCK WASHER #6	WASHER023	

THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO MANARAS / OPERA AND SHALL NOT BE REPRODUCED OR DISCLOSED OR USED FOR ANY PERSON OR MANUFACTURE EXCEPT WHEN USER POSSESSES WRITTEN AUTHORIZATION FROM MANARAS / OPERA.

**OPERA-SHW**

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