

**FCC Part 15
433.92 MHz Transmitter Certification
& 372 MHz Receiver Declaration of Conformity**

Test Report

**FCC ID: KJ8-TID372R2
FCC Rule Part: 15.231**

ACS Report Number: 03-0263-15C231

Manufacturer: Wayne-Dalton Corporation
Equipment Type: RF Controlled Garage Door Opener
Model: Operator 41XR (Torsion *idrive*TM)
Model Variants: 3651-372, 3652-372, 3750-372, 3751-372,
3752-372, 3771-372

Parts Lists

Motor Control Parts List

Wayne-Dalton OP41 Motor Control B.O.M. (XR) North American 120VAC

Part No. 312612

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EX-03599

BOM Revision: 1

BOM Revision Date: 1/13/04

Number	Part Type	Designator	Footprint	Description	Part Name	Part Specifics	Manufacturer	Part Number	Comments
1	0.0033uF	C37	2222-370	Through Hole Film Capacitor	Capacitor	.0033uF, 400V Metal Film Box, 5%	BC / Philips	2222-370-52332	
2	0.1uF	C2	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
3	0.1uF	C3	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
4	0.1uF	C4	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
5	0.1uF	C5	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
6	0.1uF	C7	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
7	0.1uF	C8	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
8	0.1uF	C9	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
9	0.1uF	C10	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
10	0.1uF	C17	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
11	0.1uF	C18	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
12	0.1uF	C22	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
13	0.1uF	C23	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
14	0.1uF	C25	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
15	0.1uF	C26	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
16	0.1uF	C6	1206	Surface Mount Ceramic Capacitor	Capacitor	1206, X7R, Ceramic Chip, 50V, 10%	NIC Components	NMC0603Y5V104Z25TR	
17	0.1uF	C42	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, Y5V, Cer. Chip, 25V/50V, +80/-20%	NIC Components	NMC0603Y5V104Z25TR	
18	0.01uF	C11	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, X7R, Ceramic Chip, 50V, 10%	NIC Components	NMC0603X7R103K50TR	
19	0.01uF	C12	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, X7R, Ceramic Chip, 50V, 10%	NIC Components	NMC0603X7R103K50TR	
20	0.01uF	C31	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, X7R, Ceramic Chip, 50V, 10%	NIC Components	NMC0603X7R103K50TR	
21	0.01uF	C38	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, X7R, Ceramic Chip, 50V, 10%	NIC Components	NMC0603X7R103K50TR	
22	100pF	C32	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, NPO, Ceramic Chip, 50V, 5%	NIC Components	NMC0603NPO101J50TR	
23	2200pF	C27	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, X7R, Ceramic Chip, 50V, 10%	NIC Components	NMC0603X7R222K50TR	
24	2200pF	C28	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, X7R, Ceramic Chip, 50V, 10%	NIC Components	NMC0603X7R222K50TR	
25	2200pF	C29	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, X7R, Ceramic Chip, 50V, 10%	NIC Components	NMC0603X7R222K50TR	
26	2200pF	C30	0603	Surface Mount Ceramic Capacitor	Capacitor	0603, X7R, Ceramic Chip, 50V, 10%	NIC Components	NMC0603X7R222K50TR	
27	1 uF	C13	1206	Surface Mount Ceramic Capacitor	Capacitor	1206, X7R, Ceramic Chip, 25V, 10%	NIC Components	NMC1206X7R105K25TR	
28	4.7uF	C48	RBSM-VSB	Polarized, Surface Mount Elec. Cap.	Capacitor	VS Series, 35V, Polarized, 20%	NIC Components	NACE4R7M35V4X5.5TR13	
29	47uF	C46	RBSM-VSD	Polarized, Surface Mount Elec Cap.	Capacitor	VS Series, 16V, Polarized, 20%	NIC Components	NACE470M16V6.3X5.5TR13	
30	220uF	C49	RB.197/.394	Polarized, Radial Electrolytic Cap.	Capacitor	SU-Series, 35V or 50V, 20%	NIC Components	NRSA221M35V10X12.5	
31	0.1 ohm / 3 watt	R67	RS3W_UP	Through Hole Resistor	Resistor	Resistor Silicone .10 Ohm 3W, 1%	Huntington Elec.	ALSR3F-.10	
32	0	R1	RL05	Through Hole Resistor	Resistor	1/4 Watt, Axial, Jumper, Zero Ohm	Yageo	ZOR-25-B	
33	0	R2	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	Panasonic	ERJ-3GEY0R00V	
34	0	R36	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	Panasonic	ERJ-3GEY0R00V	
35	0	R37	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	Panasonic	ERJ-3GEY0R00V	
36	20	R68	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J200TR	
37	39	R66	1206	Resistor Surface Mount	Resistor	1206, Thick Film Chip, 5%	Panasonic	ERJ-8GEYJ390V	
38	39	R75	1206	Resistor Surface Mount	Resistor	1206, Thick Film Chip, 5%	Panasonic	ERJ-8GEYJ390V	
39	100	R26	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J101TR	
40	100	R64	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J101TR	
41	100 1W	R88	2512	Resistor Surface Mount	Resistor	2512, Thick Film Chip, 1W, 5%	NIC Components	NRC100J101TR	
42	390	R34	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J391TR	
43	390	R74	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J391TR	
44	470	R63	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J471TR	
45	1.0K	R18	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J102TR	

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46	1.0K	R29	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J102TR	
47	1.0K	R30	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J102TR	
48	2.0K	R41	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J202TR	
49	5.1K	R95	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J512TR	
50	1.5K	R65	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J152TR	
51	10K	R13	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
52	2.0K	R89	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J202TR	
53	2.2K	R46	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J222TR	
54	2.2K	R47	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J222TR	
55	2.2K	R48	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J222TR	
56	2.2K	R49	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J222TR	
57	10K	R52	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
58	2.2K	R53	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J222TR	
59	2.2K	R54	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J222TR	
60	2.2K	R55	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J222TR	
61	2.2K	R56	1206	Resistor Surface Mount	Resistor	1206, Thick Film Chip, 5%	NIC Components	NRC12J222TR	
62	2.2K	R57	1206	Resistor Surface Mount	Resistor	1206, Thick Film Chip, 5%	NIC Components	NRC12J222TR	
63	10K	R58	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
64	10K	R59	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
65	10K	R60	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
66	820	R61	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J821TR	
67	3.3K	R62	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J332TR	
68	10K / Thermistor	RT1	0603	Surface Mount Thermistor	Thermistor	0603, NTC, 10K, 10%	Intertechnical/Tama	NTCC16Y103K370H	
69	10K	R4	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
70	10K	R5	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
71	10K	R6	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
72	10K	R8	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
73	10K	R9	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
74	10K	R10	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
75	10K	R11	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
76	10K	R12	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
77	10K	R14	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
78	10K	R15	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
79	10K	R16	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
80	10K	R17	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
81	10K	R19	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
82	10K	R20	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
83	10K	R21	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
84	10K	R22	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
85	10K	R23	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
86	10K	R25	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
87	10K	R33	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
88	10K	R39	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	

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Number	Part Type	Designator	Footprint	Description	Part Name	Part Specifics	Manufacturer	Part Number	Comments
89	10K	R40	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
90	10K	R42	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
91	10K	R43	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
92	10K	R44	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
93	10K	R45	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
94	10K	R50	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
95	10K	R99	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J103TR	
96	10K	R32	1206	Surface Mount Resistor	Resistor	1206, Thick Film Chip, 5%	NIC Components	NRC12J103TR	
97	12K	R24	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J123TR	
98	51K	R3	1206	Resistor Surface Mount	Resistor	1206, Thick Film Chip, 5%	NIC Components	NRC12J513TR	
99	51K	R7	1206	Resistor Surface Mount	Resistor	1206, Thick Film Chip, 5%	NIC Components	NRC12J513TR	
100	51K	R27	1206	Resistor Surface Mount	Resistor	1206, Thick Film Chip, 5%	NIC Components	NRC12J513TR	
101	51K	R28	1206	Resistor Surface Mount	Resistor	1206, Thick Film Chip, 5%	NIC Components	NRC12J513TR	
102	680K	R69	0603	Resistor Surface Mount	Resistor	0603, Thick Film Chip, 5%	NIC Components	NRC06J684TR	
103	100K 1W	R31	2512	Resistor Surface Mount	Resistor	2512, Thick Film Chip, 1W, 5%	NIC Components	NRC100J104TR	
104	100K 1W	R35	2512	Resistor Surface Mount	Resistor	2512, Thick Film Chip, 1W, 5%	NIC Components	NRC100J104TR	
105	BAS20	D1	SOT23 BAS20	SMT, Switching Rectifier	Diode	Diode Switch, 150V, 250MW, SOT-23	Diodes Inc.	BAS20	
106	BAS20	D2	SOT23 BAS20	SMT, Switching Rectifier	Diode	Diode Switch, 150V, 250MW, SOT-23	Diodes Inc.	BAS20	
107	BAS20	D4	SOT23 BAS20	SMT, Switching Rectifier	Diode	Diode Switch, 150V, 250MW, SOT-23	Diodes Inc.	BAS20	
108	BAS20	D5	SOT23 BAS20	SMT, Switching Rectifier	Diode	Diode Switch, 150V, 250MW, SOT-23	Diodes Inc.	BAS20	
109	BAS20	D6	SOT23 BAS20	SMT, Switching Rectifier	Diode	Diode Switch, 150V, 250MW, SOT-23	Diodes Inc.	BAS20	
110	BAS20	D7	SOT23 BAS20	SMT, Switching Rectifier	Diode	Diode Switch, 150V, 250MW, SOT-23	Diodes Inc.	BAS20	
111	BAS20	D9	SOT23 BAS20	SMT, Switching Rectifier	Diode	Diode Switch, 150V, 250MW, SOT-23	Diodes Inc.	BAS20	
112	BAS20	D10	SOT23 BAS20	SMT, Switching Rectifier	Diode	Diode Switch, 150V, 250MW, SOT-23	Diodes Inc.	BAS20	
113	BAS20	D11	SOT23 BAS20	SMT, Switching Rectifier	Diode	Diode Switch, 150V, 250MW, SOT-23	Diodes Inc.	BAS20	
114	DL4005	D3	MELF300_150	Surface Mount Rectifier Diode	Diode	1 Amp 600V SMT MELF	Diodes Inc.	DL4005	
115	LL4148	D12	DL-35	Surface Mount High Speed Rectifier	Diode	DL-35	Diodes Inc.	LL4148	
116	FR305	D15	1.5KEL_B	Axial Rectifier Diode	Diode	3 Amp 600 PIV Rectifier	Diodes Inc.	FR305	
117	FR305	D16	1.5KEL_B	Axial Rectifier Diode	Diode	3 Amp 600 PIV Rectifier	Diodes Inc.	FR305	
118	FR305	D18	1.5KEL_B	Axial Rectifier Diode	Diode	3 Amp 600 PIV Rectifier	Diodes Inc.	FR305	
119	FR305	D19	1.5KEL_B	Axial Rectifier Diode	Diode	3 Amp 600 PIV Rectifier	Diodes Inc.	FR305	
120	ZMM5231B	DZ2	DL-35	5.1V Surface Mount Zener Diode	Diode, Zener	DL-35	Diodes Inc.	ZMM5231B	
121	ZMM5231B	DZ3	DL-35	5.1V Surface Mount Zener Diode	Diode, Zener	DL-35	Diodes Inc.	ZMM5231B	
122	ZMM5231B	DZ7	DL-35	5.1V Surface Mount Zener Diode	Diode, Zener	DL-35	Diodes Inc.	ZMM5231B	
123	ZMM5231B	DZ9	DL-35	5.1V Surface Mount Zener Diode	Diode, Zener	DL-35	Diodes Inc.	ZMM5231B	
124	ZMM5232B	DZ1	DL-35	5.6V Surface Mount Zener Diode	Diode, Zener	DL-35	Diodes Inc.	ZMM5232B	
125	ZMM5233B	DZ5	DL-35	6V Surface Mount Zener Diode	Diode, Zener	DL-35	Diodes Inc.	ZMM5233B	
126	6490000100	F1	Fuse_646	Fuse Holder	Fuse Holder	5mm x 20mm	Wickmann	6490000100	
127	BK/GDC-4A	Fuse	*	Fuse, UL Recognized (E75865)	Fuse	Fuse, 5mm x 20mm, Time-Lag	Cooper Bussmann	BK/GDC-4A	
128	H11A817C	U3	DIP-12	Phototransistor Optocoupler	IC, Optocoupler	4-Pin Dip, .300"	Fairchild	H11A817C	Single Source
129	H11A817C	U4	DIP-12	Phototransistor Optocoupler	IC, Optocoupler	4-Pin Dip, .300"	Fairchild	H11A817C	Single Source
130	H11A817C	U5	DIP-12	Phototransistor Optocoupler	IC, Optocoupler	4-Pin Dip, .300"	Fairchild	H11A817C	Single Source
131	H11A817C	U6	DIP-12	Phototransistor Optocoupler	IC, Optocoupler	4-Pin Dip, .300"	Fairchild	H11A817C	Single Source
132	H11A817C	U7	DIP-12	Phototransistor Optocoupler	IC, Optocoupler	4-Pin Dip, .300"	Fairchild	H11A817C	Single Source

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133	H11A817C	U8	DIP-12	Phototransistor Optocoupler	IC, Optocoupler	4-Pin Dip, .300"	Fairchild	H11A817C	Single Source
134	H11A817C	U9	DIP-12	Phototransistor Optocoupler	IC, Optocoupler	4-Pin Dip, .300"	Fairchild	H11A817C	Single Source
135	H11A817C	U10	DIP-12	Phototransistor Optocoupler	IC, Optocoupler	4-Pin Dip, .300"	Fairchild	H11A817C	Single Source
136	H11A817C	U11	DIP-12	Phototransistor Optocoupler	IC, Optocoupler	4-Pin Dip, .300"	Fairchild	H11A817C	Single Source
137	LM2904D	U13	SOIC-8	8 Pin Dual Op-Amp	IC, Op-Amp	Surface Mount Dual Op-Amp	Texas Inst.	LM2904D	
138	MMBT2222A	T1	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
139	MMBT2222A	T2	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
140	MMBT2222A	T3	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
141	MMBT2222A	T4	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
142	MMBT2222A	T5	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
143	MMBT2222A	T6	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
144	MMBT2222A	T7	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
145	MMBT2222A	T8	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
146	MMBT2222A	T9	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
147	MMBT2222A	T10	SOT-23N	Surface Mount NPN Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2222A	
148	MMBT2907A	T13	SOT-23N	Surface Mount PNP Transistor	Transistor	SOT-23	Diodes Inc.	MMBT2907A	
149	MC78L05ABD	U16	SOIC-8	Voltage Regulator	Regulator	ADJ. Regulator, 8-SOIC	On Semi	MC78L05ABD	
150	LM555CM	U12	SOIC-8	Timer, SO-8	IC, Timer	555 Timer	National Semi.	LM555CM	
151	BRP1207P-30	PZ1	PIEZO-2	Piezo Buzzer Alarm	Buzzer	External Drive, 2 Pin, Through Hole	Intervox ICC	BRP1207P-30	
152	833H-1C-C-12VDC	RE1	T7CV-2	DPST PCB Mount Relay	Relay	DPST	Song Chuan	833H-1C-C-12VDC	
153	833H-1C-C-12VDC	RE2	T7CV-2	DPST PCB Mount Relay	Relay	DPST	Song Chuan	833H-1C-C-12VDC	
154	Socket (Prototyping)	*	2-382571-1	DIP 28	IC, Socket	Socket for microprocessor	AMP	390261-9	
155	312613	U2	DIP28S	Microprocessor	IC, Micro.	Dip 28, PIC16F876A-I/SP	Microchip	312613	Programmed Part
156	8MHz	U1	HC-49-3	Ceramic Resonator	Resonator	3 Pin Built in Caps	Murata	CSTLS8M00G53-B0	
157	IRFP450	Q1	TO247_DOWN	MosFet	HEXFET	(N) 500V 14A TO-247AC	International Rec.	IRFP450	
158	4904	E1	1285	Tab	Connector	.020" x .187", Right Angle	Keystone Elec.	4904	See print for orientation
159	39-30-2056	J1	MOLEX3930	Mini-Fit, Jr. Recp. 4.20mm, (.165")	Connector	5 Pos Header, 94V-0	Molex	39-30-2056	
160	SSW-103-01-G-S	J4	HEADER_3	3 Pin Single Row Header	Header	.100" Pin Spacing, Gold Contact	Samtec	SSW-103-01-G-S	
161	SSQ-105-22-S-S-RA	J6	HEADER_5	5 Pin Single Row Header	Header	.100" Pin Spacing	Samtec	SSQ-105-22-S-S-RA	
162	SSQ-105-22-S-S-RA	J5	HEADER_5	5 Pin Single Row Header	Header	.100" Pin Spacing	Samtec	SSQ-105-22-S-S-RA	
163	SSQ-108-22-S-S-RA	J3	HEADER_8	8 Pin Single Row Header	Header	.100" Pin Spacing	Samtec	SSQ-108-22-S-S-RA	
164	SSQ-112-22-S-S-RA	J2	HEADER_12	12 Pin Single Row Header	Header	.100" Pin Spacing	Samtec	SSQ-112-22-S-S-RA	
165	SPK0140900-12134	TRA1	XFRM1.5VA_A	Single Pri, Single Sec, Class B130	Transformer	115VAC/9VAC, 167mAmp, Inherent limit	Spitznagel	SPK0140900-12134	
166	PCB	*	*	Printed Circuit Board, See Gerbers	PCB	Two Layer, FR-4, 94V-0, .062"	Approved Suppliers	EX-03583 Rev: 1, 12/16/03	
167	PMCU-5009S	L1	IND_PMCU500	Line Filter	Com. Mode Filter	Refer to Spec Sheet	Premier Magnetics	PMCU-5009S	

PART UPDATE OR ADDITION TO BOM.

PART SUBJECT TO CHANGE, NOT RECOMMENDED FOR PURCHASE AT THIS TIME.

RF Transmitter/Receiver Parts List

Bill of Materials: Operator 41 RF Daughter Board - 372.5MHz Receiver (XR)**Part No. 312616**

Wayne-Dalton Corp.

EX-03634

v1 1/13/04

Item	Part Type	Designators	Footprint	Description	Part Name	Part Specifics	Manufacturer	Part Number	Comment
1	Antenna Wire	L1	ANT_OP41		Wire	22AWG, Solid, PVC, 300V, UL1007	Buse Assm. Sys.	312039-1	See Print
2	0.1uF	C1	0603	Capacitor, Surface Mount	Capacitor	Cap, Chip 0603 0.1uF	BC Components	0603B104K160BT	
3	0.1uF	C3	0603	Capacitor, Surface Mount	Capacitor	Cap, Chip 0603 0.1uF	BC Components	0603B104K160BT	
4	0.1uF	C5	0603	Capacitor, Surface Mount	Capacitor	Cap, Chip 0603 0.1uF	BC Components	0603B104K160BT	
5	100pF	C2	0603	Capacitor, Surface Mount	Capacitor	Cap, Chip 0603 100pF	BC Components	0603N101J500NT	
6	100pF	C4	0603	Capacitor, Surface Mount	Capacitor	Cap, Chip 0603 100pF	BC Components	0603N101J500NT	
7	0.022uF	C6	0603	Capacitor, Surface Mount	Capacitor	Cap, Chip 0603 .022uF	BC Components	0603B223K160BT	
8	4.7uF	C7	3216	Capacitor, Surface Mount	Capacitor	Tantalum, 16V, ±20%, 125°C	Panasonic	ECS-T1CY475R	
9	MMBT2222A	Q1	SOT-23	Surface Mount NPN	Transistor	Trans., NPN, gen. pur.	On Semi	MMBT2222A	
10	3.3K	R4	0603	Resistor, Surface Mount	Resistor	Res., Chip 0603, 3.3K	Panasonic	ERJ-3GEYJ332V	
11	47K	R3	0603	Resistor, Surface Mount	Resistor	Res., Chip 0603, 47K	Panasonic	ERJ-3GEYJ473V	
12	2.89MHz	XT1	DUALCRYS	Ceramic Resonator	Resonator	Res., Cer., TH, 2.89MHz	Vanlong	ZTA2.89MG	
13	MC78LC50NTR	U1	SOT-25	Voltage Regulator	Regulator	Volt. Reg., 5V, SOT-25	National Semi	MC78LC50NTR	
14	MICRF001BM	U2	SO-14	IC, Receiver, SMT	IC	IC, RF receiver	Micrel	MICRF001BMTR	
15	27nH	Z1	0603	Inductor, Surface Mount	Inductor	Inductor, 0603, 27nH, 2%	Panasonic	ELJ-RE27NGF2	
16	3pF	Z2	0603	Capacitor, Surface Mount	Capacitor	Cap, Chip 0603, 3pF	Yageo America	0603CG309C9B200	
17	PCB	*	*	Printed Circuit Board	PCB	One Layer, FR-4, 94V-0, 0.062"	Approved Suppliers	EX-03642 Ver. E2, 12/16/03	

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