

Williams WPC / Gottlieb Dot Matrix Controller High Voltage Parts Kit

Part Number	Description	WPC Reference	WPC 95 Reference	Gottlieb Sys 3 Reference
1N4759A	Zener Diode, 62V	D3	D2	VR1
1N4758A	Zener Diode, 56V	D4	D1	VR2
1N4758A	Zener Diode, 56V	D5	D18	VR3
1N4742A	Zener Diode, 12V	D6	D3	VR4
1N4742A	Zener Diode, 12V	D8	D5	VR5
1N4004	Rectifier Diode, 400V, 1A	D7	D4	D9
2N5551	Transistor, NPN (MPSD02 Alternate)	Q2	Q2	Q2
MJE15030	Transistor, NPN	Q3	Q1	Q5
2N5401	Transistor, PNP (MPSD52 Alternate)	Q4	Q4	Q3
2N5401	Transistor, PNP (MPSD52 Alternate)	Q5	Q5	Q4
MJE15031	Transistor, PNP	Q6	Q6	Q7
MJE15030	Transistor, NPN	Q7	Q7	Q6
2N5551	Transistor, NPN (MPSD02 Alternate)	Q10	Q3	Q1
RCF1/2-120	Resistor, 120 ohm, 1/2 watt	R4	R30	R17
RCF1/2-120	Resistor, 120 ohm, 1/2 watt	R5	R31	R16
RCF1/2-47K	Resistor, 47K ohm, 1/2 watt	R3	R25	R15
RCF1/2-47K	Resistor, 47K ohm, 1/2 watt	R6	R26	R13
RCF1/2-47K	Resistor, 47K ohm, 1/2 watt	R12	R27	R14
RCF1/2-47K	Resistor, 47K ohm, 1/2 watt	R13	R29	R12
RC5W-4.7K	Resistor, Cement, 4.7K ohm, 5 watt	R8	R43	R18
RC5W-1.8K	Resistor, Cement, 1.8K ohm, 5 watt	R9	R44	R19
RC5W-120	Resistor, Cement, 120 ohm, 5 watt	R11	R28	N/A

Carbon resistor (RCF) color codes:

120 ohm = Brown, Red, Brown, Gold

47K ohm = Yellow, Violet, Orange, Gold

Gottlieb kit does not include the 120ohm, 5W Resistor.

For additional information, see:

<http://www.marvin3m.com/wpc/index3.htm#dots>