

Mercotronic Model 55-138 Power Supply Parts List

**Please Note: This information is presented As Is – Use At Your Own Risk And Expense**

BP1 – Red Binding Post

BP2 – Black Binding Post

C1 – 5500 uF 25V electrolytic capacitor 36D552GO25AB2A, EP25-552, 7621L

D1, D2 – MR750 50V 6A Silicon Rectifier Diode

D3 – 1N4738A 8.2 Volt Zener Diode 1 W

D4 – 1N4743 13 Volt Zener Diode

F1 – 2A 250V 312 3AG Glass Fuse

Q1 – PN3638 PNP Transistor

Q2 – 2N441 PNP Transistor

REC1 – 110V 15 Amp Panel Mount Receptacle

R1 – 100 ohm Resistor 1/2W

R2 – 680 ohm Resistor 1/2W

R3 – 560 ohm Resistor 1/2W

R4 – 220 ohm Resistor 1W

SW1 – 3 position double pole triple throw On, On, On slide switch

SW1 Notes: SW1 jumpers – Terminal 2 and 3, Terminal 5 and 8, Terminal 6 and 7

SW1 in off position – terminals 2 and 3 connected; terminals 5 and 8 connected, terminals 6 and 7 connected

SW1 in 7.5 volts position - terminals 2,3 and 4 connected; terminals 5,6,7 and 8 connected

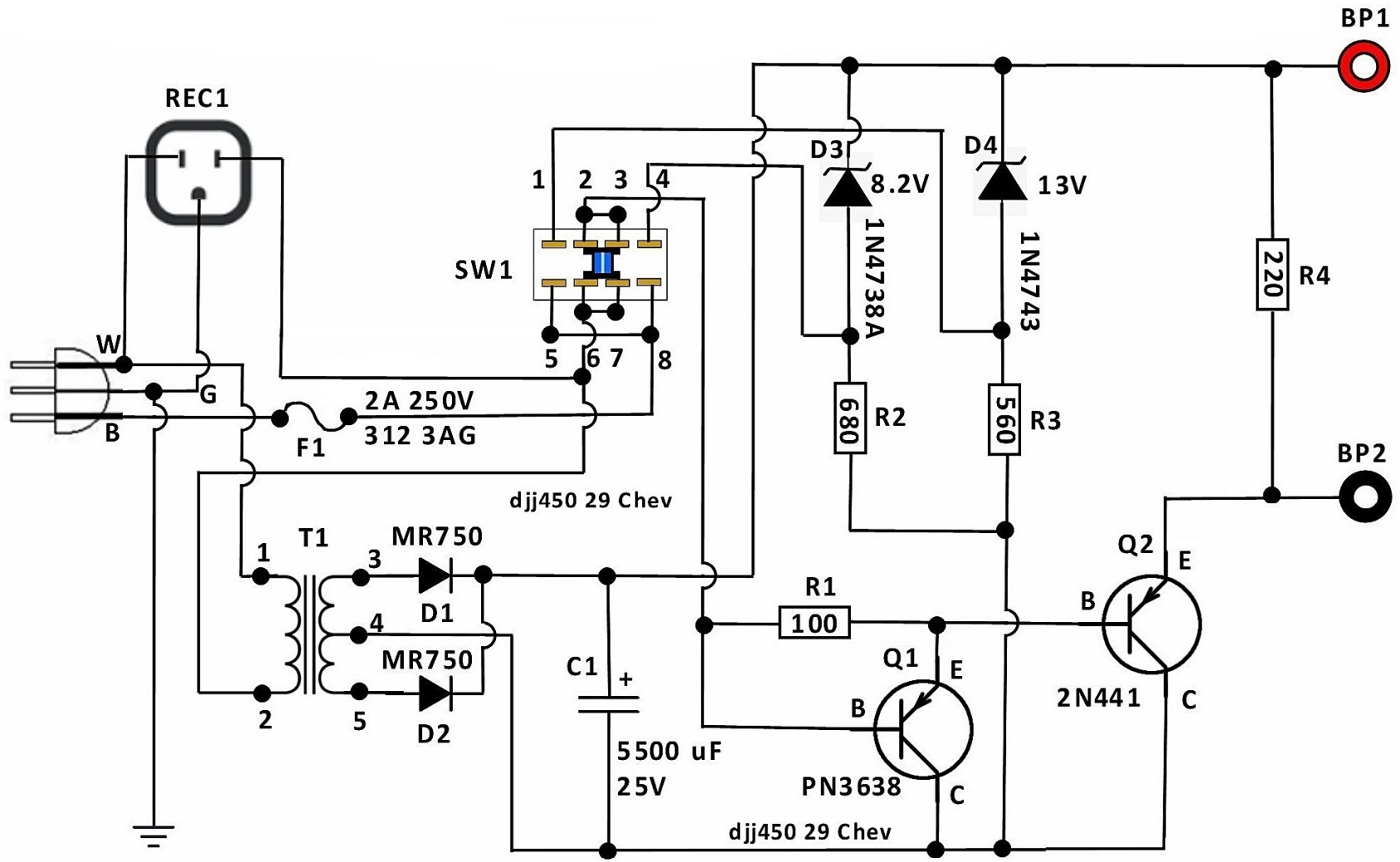
SW1 in 12 volts position – terminals 1,2 and 3 connected; terminals 5,6,7 and 8 connected

T1 – Transformer - Primary 110 volts, CT secondary –

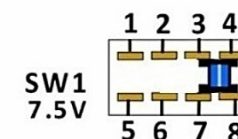
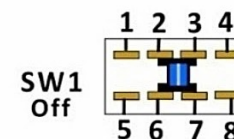
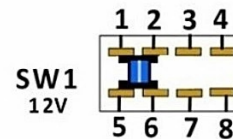
T1 Notes: Resistance between terminals 1 and 2 = 6.0 ohms, Resistance between terminals 3 and 5 = 0.6 ohms,  
Resistance between terminals 3 and 4 = 0.4 ohms, Resistance between terminals 4 and 5 = 0.4 ohms

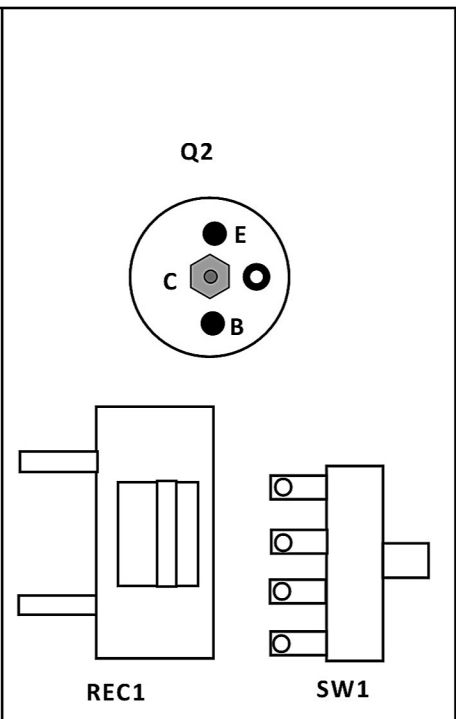
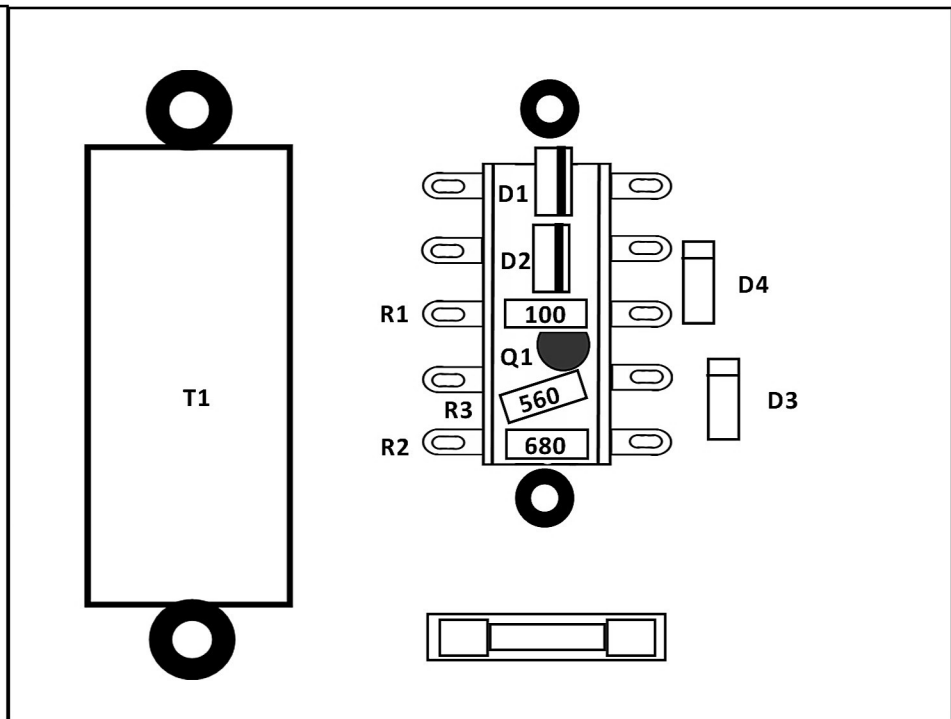
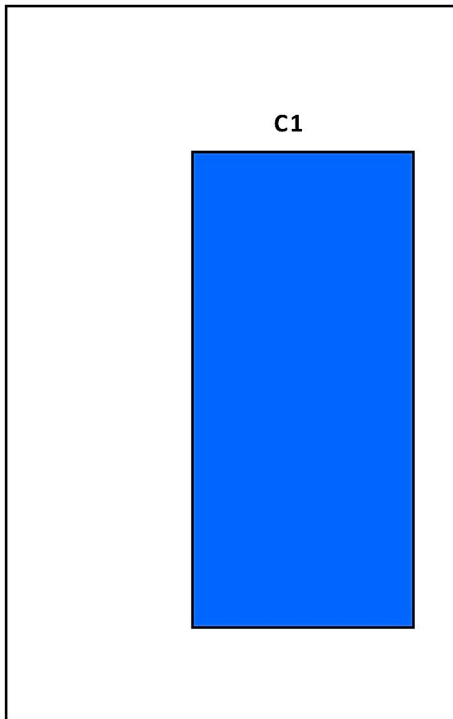
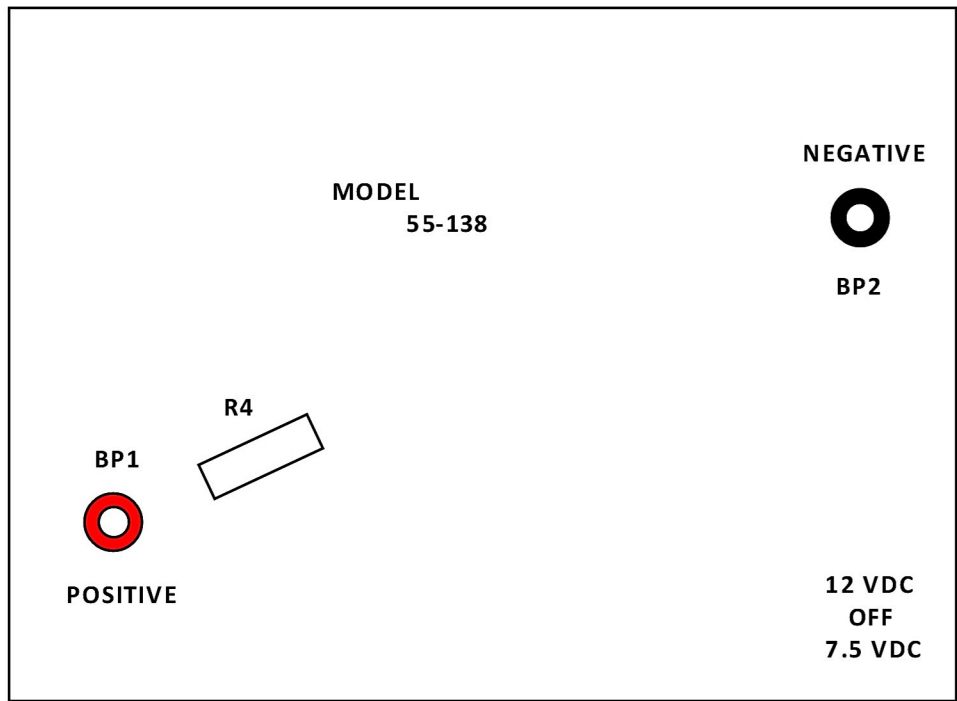
Notes – Resistors R1, R2, R3, diodes D1, D2, D3, D4 and Q1 are mounted on two 5 Lug terminal strips riveted to bottom of enclosure – similar to Keystone Electronics part # 824

# Merc-o-tronic Model 55-138 110 Volt to 7.5 Volt and 12 Volt Power Supply Adaptor Schematic



Switch SW1 Internal Connections In Each Position





Mercotronic Model 55-138 Component Locations