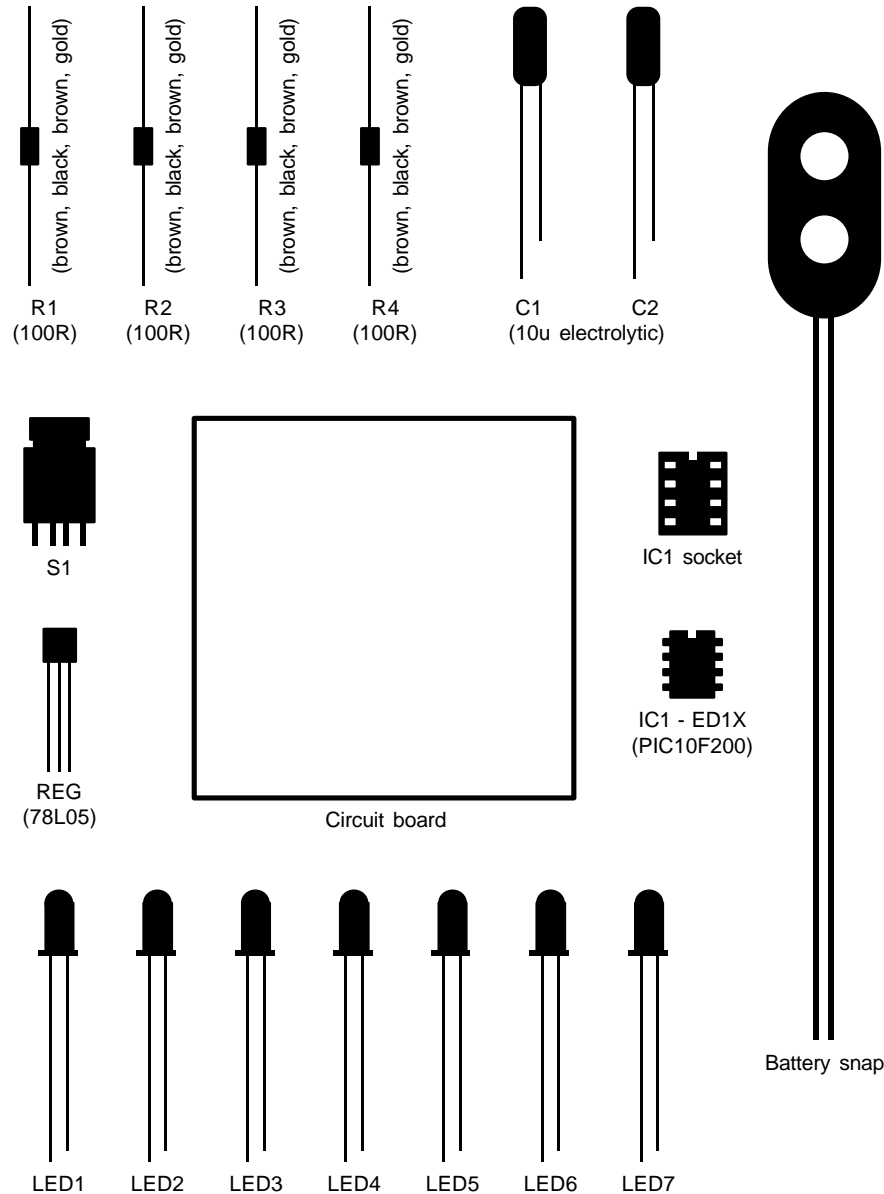


# REACTOMETER



## CONSTRUCTION

1. Identify the different components using the spotter chart.
2. Fit the resistors (R1 to R4) flat onto the picture side of the circuit board either way around. Solder the legs of the resistors to the metal side of the board then clip the legs close to each solder joint.
3. Fit the capacitors (C1 and C2) to the board putting the shorter leg (the leg nearer the stripe on the body) into the hole with the – sign. Solder the capacitors to the board and trim their legs.
4. Open the legs of the regulator (REG) a little and fit it to the board matching the half-circle shape of the regulator to the half-circle shape on the board (flat side against flat). Push the regulator half way down then solder and clip its legs.
5. Solder the lights (LED1 to LED7) to the board putting the shorter leg (the leg by the flattened edge on the rim) into the hole with the line.
6. Solder the chip socket (IC1) matching the notch in the socket to the notch on the board. Do not solder the chip directly to the board.
7. Solder the pushbutton (S1) to the board either way around.
8. Push the battery snap leads up through the larger holes in the board from the metal side of the board. Fit the metal tip of the red lead into the BATTERY + hole, and the metal tip of the black lead into the BATTERY – hole. Solder the metal tips to the tracks on the board then pull the wire loops back.
9. Carefully bend the legs of the chip inwards a little with your fingers. Fit the chip into its socket matching the small notch in the chip to the notch in the socket.
10. Connect a battery (9V PP3) to the battery snap.
11. If *Reactometer* is working properly all the LEDs should light up in sequence.