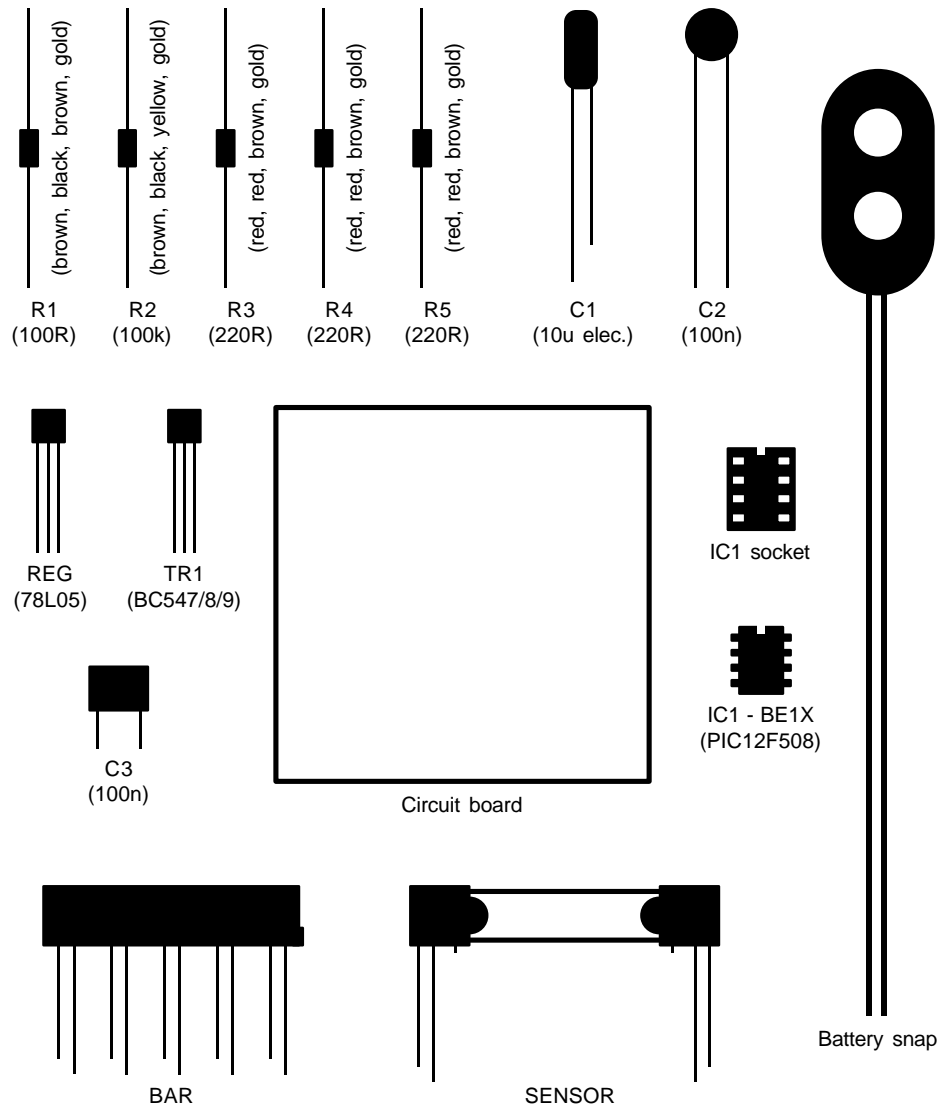


STRENGTHOMETER



CONSTRUCTION

1. Identify the different components using the spotter chart.
2. Fit and solder all the resistors (R1 to R5) to the circuit board. Identify the resistors by the coloured stripes on the body.
3. Fit and solder the electrolytic capacitor (C1) to the board putting the shorter leg (the leg nearer the stripe on the body) into the hole with the – sign. Fit and solder the other capacitors (C2 and C3) either way around.
4. Solder the transistor (TR1) to the board matching the half-circle shape of the transistor to the half-circle shape on the board (flat side against flat side). Be careful not to mistake the regulator for the transistor.
5. Solder the regulator (REG) matching the half-circle shape of the regulator to the half-circle shape on the board (flat side against flat side).
6. Solder the light bar (BAR) to the board matching the shape of the bar to the shape on the board (note the small recess at one end and small protrusion at the other).
7. Solder the sensor (SENSOR) to the board either way around. The two clear LEDs should be pointing towards each other, within the plastic tube.
8. 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.
9. 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.
10. 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.
11. Connect a battery (9V PP3) to the battery snap.