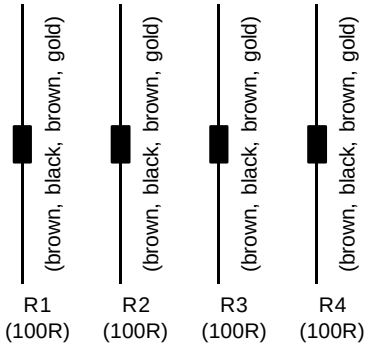
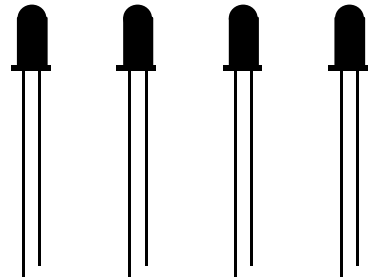
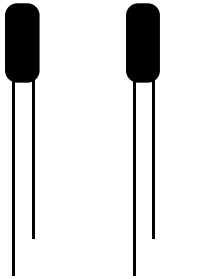
AMOEBOID



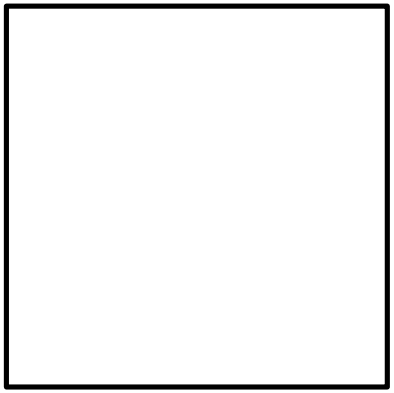
R1 (100R) R2 (100R) R3 (100R) R4 (100R)



LED1 LED2 LED3 LED4



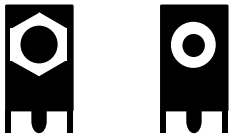
C1 (10u elect.) C2 (10u elect.)



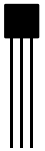
Circuit board

IC1 socket

IC1 - FC1X (PIC10F200)



BATT+ BATT–



REG (78L05)

CONSTRUCTION

1. Identify the different components using the spotter chart.

2. Fit and solder all the resistors (R1, R2, R3 and R4) to the circuit board.

3. Fit and solder the electrolytic 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.

4. 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).

5. Solder the lights (LED1, LED2, LED3 and LED4) 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 battery connectors (BATT+ and BATT-) matching the shape to the symbol on the board (the hexagonal connector is positive, the circular negative). Make sure the connectors are pushed fully into the board, and all the holes are well soldered.

8. Peel the backing from the self-adhesive eyes and attach them to the two corners of the board.

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 connectors.

11. If *Amoeboid* is working properly all the lights should flash twice, then various patterns of light will be displayed at random.