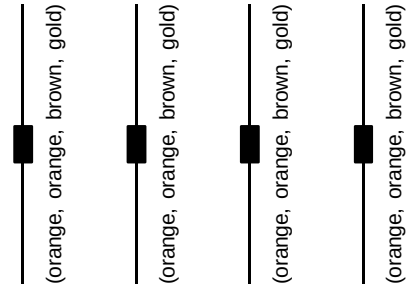
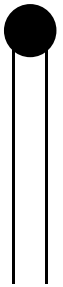
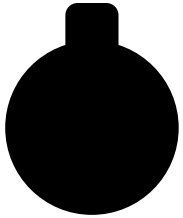
RAZZLE DAZZLER



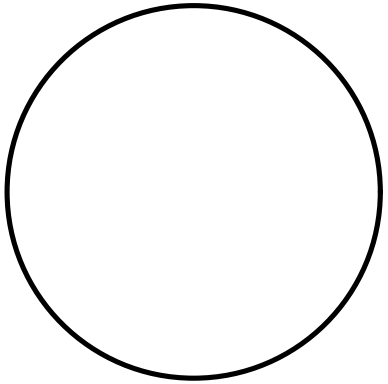
R1 (330R) R2 (330R) R3 (330R) R4 (330R)



C1 (100n)



Battery holder

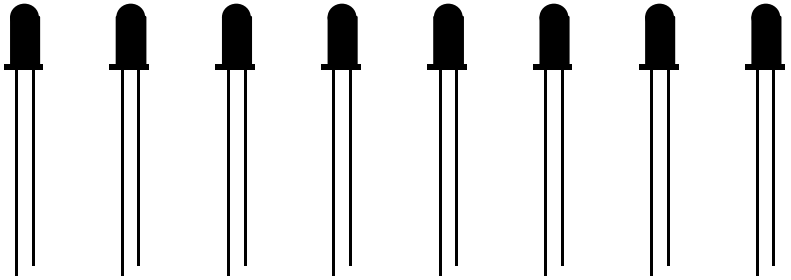


Circuit board

IC1 socket

S1

IC1 - AE2X
(PIC12F508)



LED1 LED2 LED3 LED4 LED5 LED6 LED7 LED8

CONSTRUCTION

1. Identify the different components using the spotter chart.

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

3. Fit and solder the capacitor (C1) to the board either way around.

4. Solder the lights (LED1 to LED8) to the board putting the shorter leg (the leg by the flattened edge on the rim) into the hole with the line.

5. 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.

6. Solder the pushbutton (S1) to the board.

7. Solder the battery holder (BATTERY) matching the shape of the holder to the shape on the board.

8. 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.

9. Attach the self-adhesive clip to the back of the circuit board, or use the two large holes to thread *Razzle Dazzler* on a cord to wear around your neck.

10. Fit a coin cell (3V CR2032) into the battery holder making sure the plus sign (+) on the coin cell is uppermost.

11. If *Razzle Dazzler* is working properly all the lights should flash twice.

HOW TO USE

Press the pushbutton to start the sequence of lights. Press it again to stop the lights.

The brightness of the lights can be adjusted. In daylight you might want the lights to be brighter than you would at night. Note that the brighter the lights are the faster the battery will drain, so don't set the brightness any more than you really need. To vary the brightness hold down the pushbutton for about 2 seconds. The lights will then light up one by one round in a circle. The more lights that are on, the brighter they are. Release the button when the lights are bright enough.

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