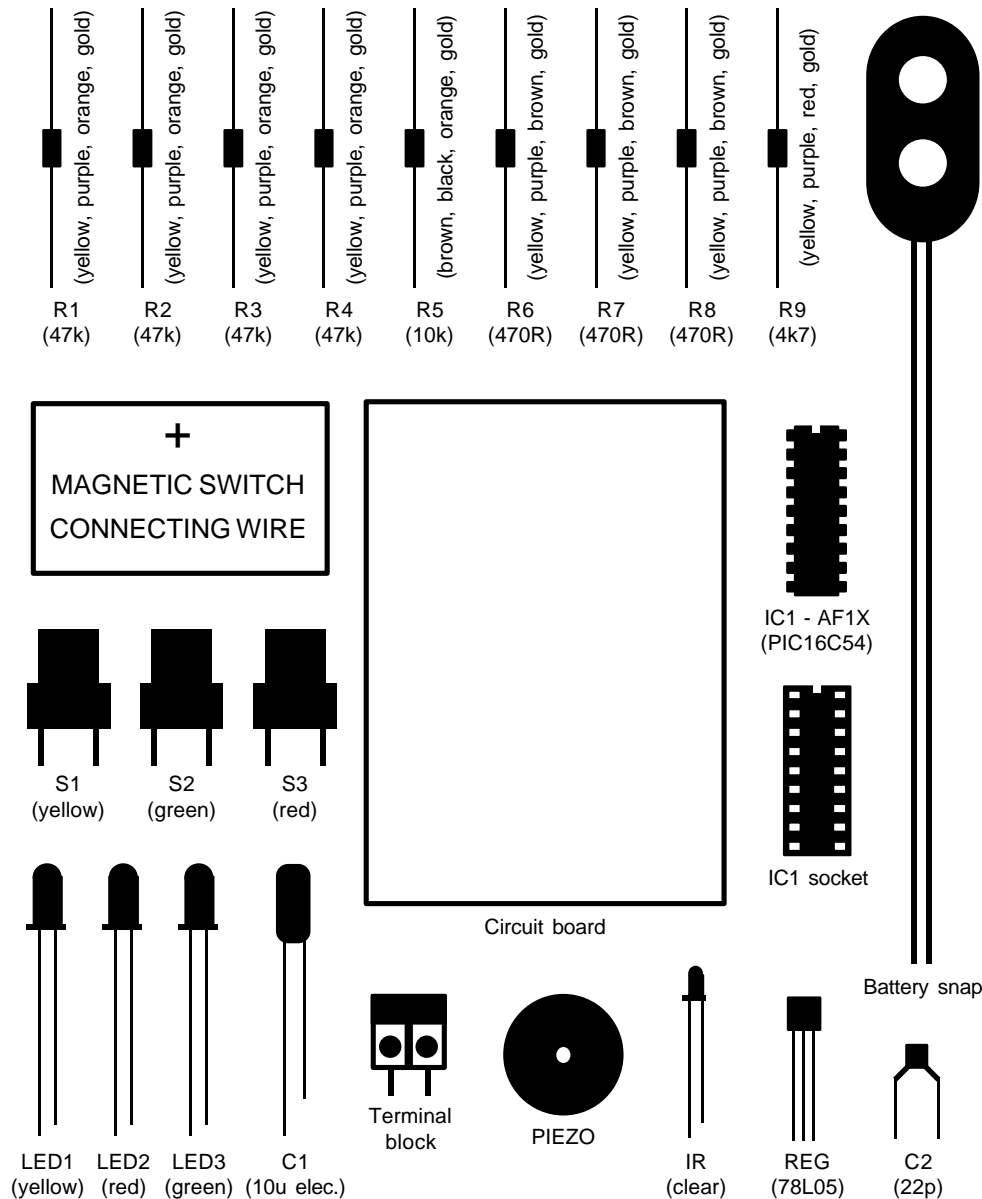


# SPYCATCHER



## CONSTRUCTION

1. Identify the different components using the spotter chart.
2. Fit and solder all the resistors (R1 to R9) 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 capacitor (C2) either way around.
4. Solder the lights (LED1 to LED3) 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 infra-red light sensor (IR) putting the shorter leg into the hole that matches the flat side of the shape on the board.
6. 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).
7. 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.
8. Solder the pushbuttons (S1 to S3) to the board matching the slightly flattened edge on the rim to the flat part of the shape on the board.
9. Solder the piezo (PIEZO) either way around.
10. Solder the terminal block (EXTERNAL) to the board so that its screw holes face outwards.
11. 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.
12. 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.
13. Connect the magnetic switch to the terminal block with the two pieces of flexible wire. If the magnetic switch has more than two screw terminals then look for the two which have wires going to the reed switch showing. The other screw terminals are for an anti-tamper circuit and are not used here.
14. Connect a battery (9V PP3) to the battery snap.

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