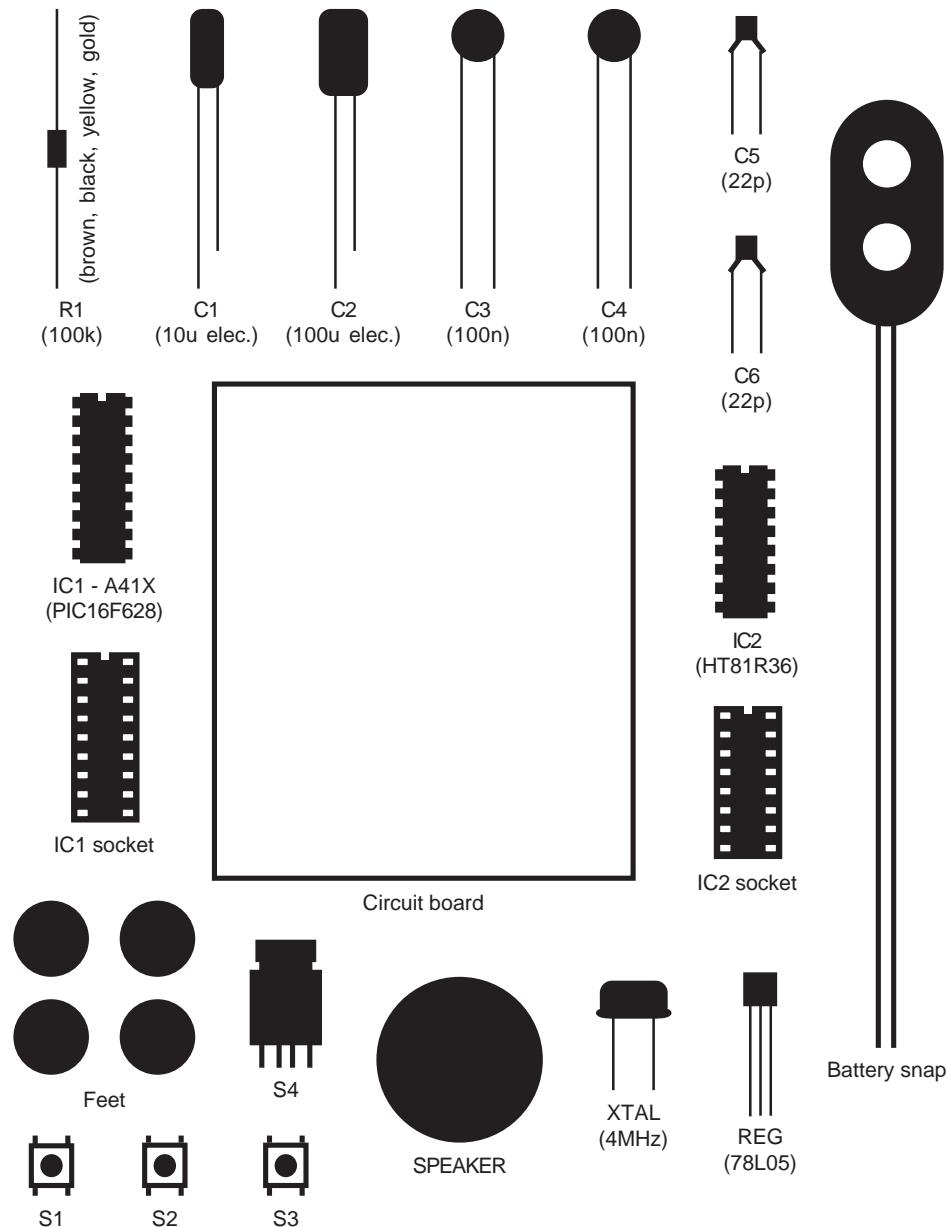


THE TIME MACHINE



CONSTRUCTION

1. Identify the different components using the spotter chart.
2. Fit and solder the resistor (R1) to the circuit board.
3. 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. Solder the other capacitors (C3 to C6) either way around.
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 crystal (XTAL) to the board either way around.
6. Solder the chip sockets (IC1 and IC2) matching the notch in the socket to the notch on the board. Do not solder the chips directly to the board.
7. Solder the pushbuttons (S1 to S4) to the board.
8. Solder the speaker (SPEAKER) either way around.
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 chips inwards a little with your fingers. Fit each chip into its socket matching the small notch in the chip to the notch in the socket.
11. Pull the rubber feet through the four corner holes using a pair of pliers.
12. Connect a battery (9V PP3) to the battery snap. If *The Time Machine* is working properly it should beep twice.