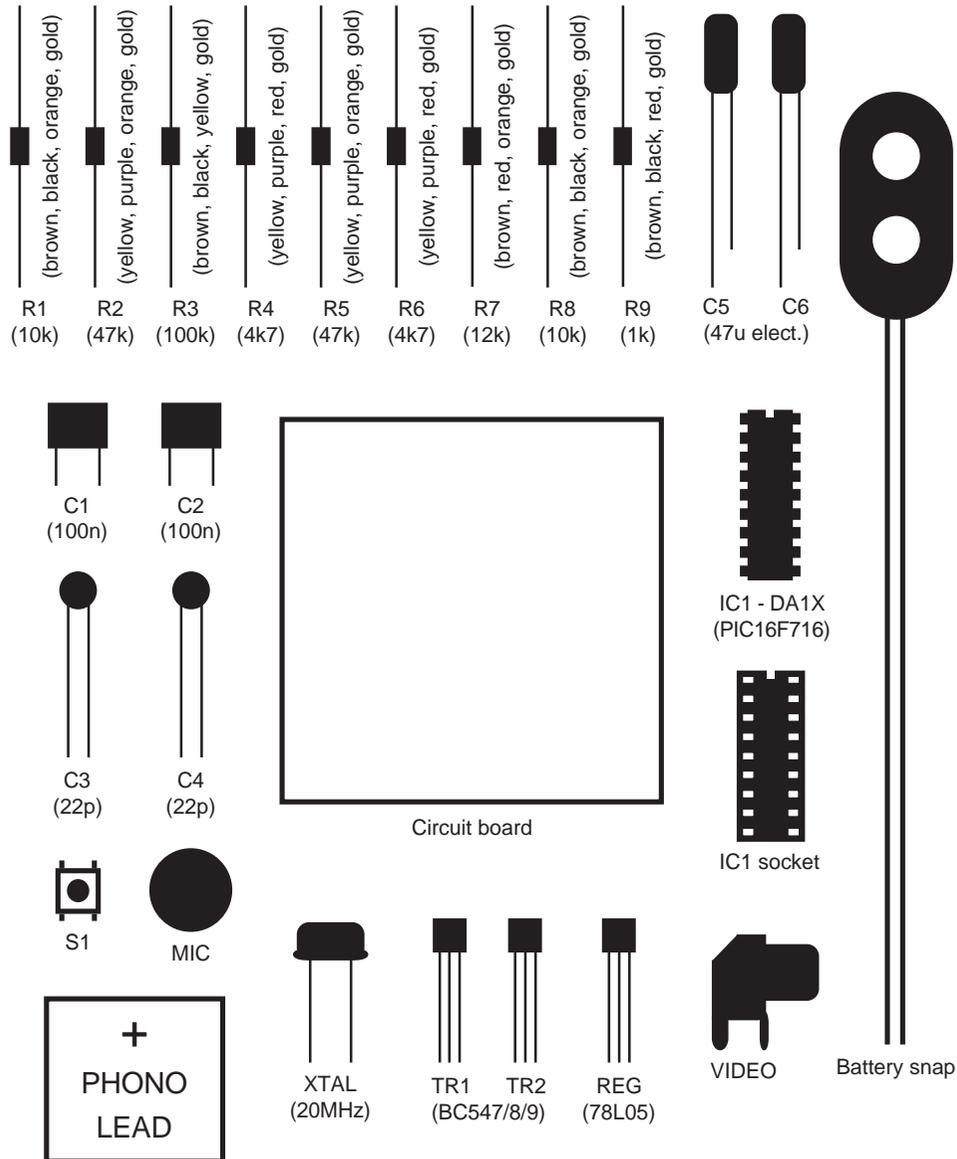


MINISCOPE



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 capacitors (C5 and C6) 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 (C1 to C4) either way around.
4. Solder the transistors (TR1 and TR2) 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 a 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 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 pushbutton (S1) to the board.
8. Solder the microphone (MIC) to the board so that it fits within the circle.
9. Solder the crystal (XTAL) to the board either way around.
10. Solder the video socket (VIDEO) to the board. Make sure the socket is pushed fully into the board, and all the holes are well soldered.
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 then pull the wire loops back.
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 a battery (9V PP3) to the battery snap.