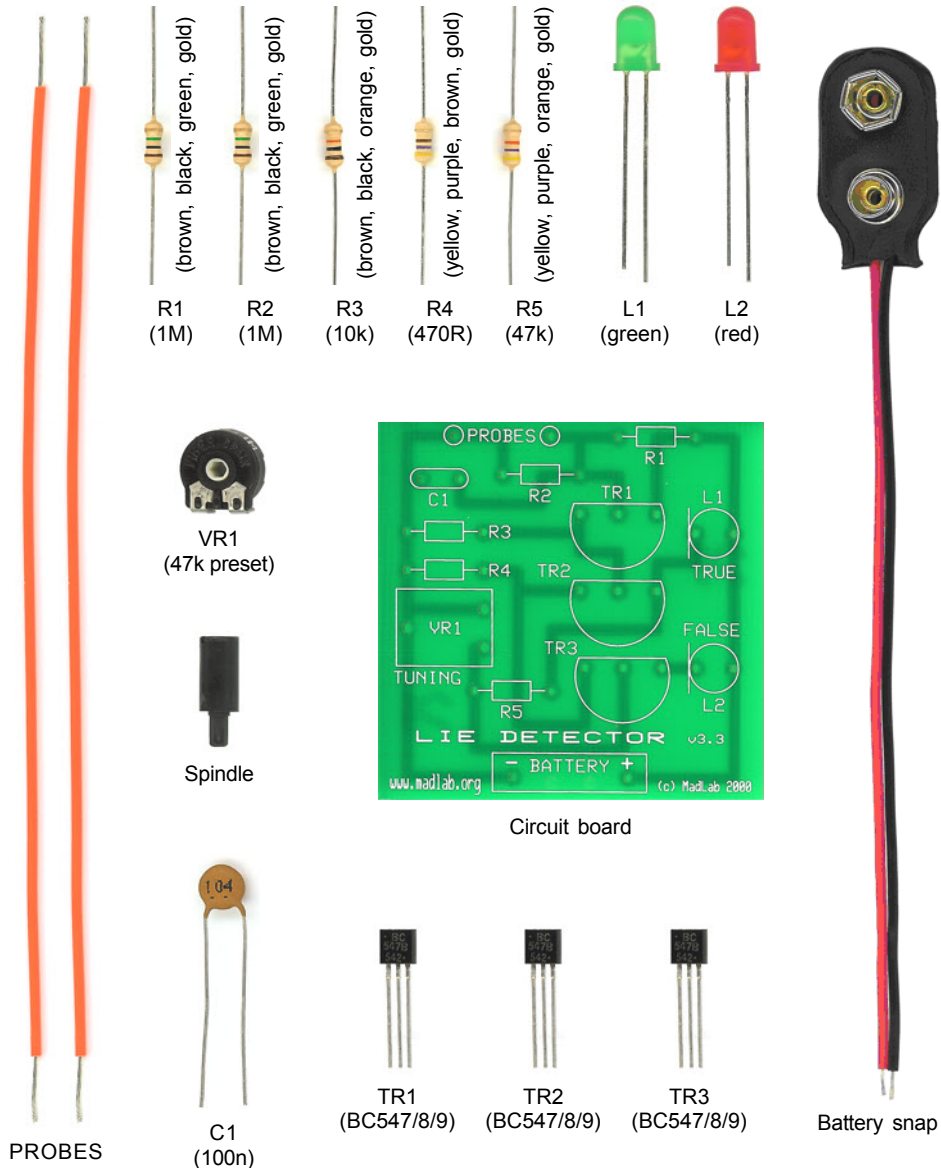
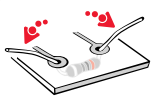
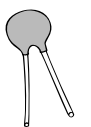
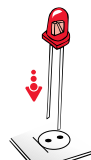
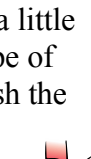
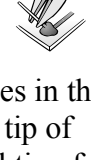
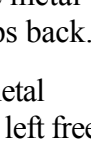



LIE DETECTOR

catch your friends out if they're lying



- 1 Identify the different components using the spotter chart.
- 2 Find the resistors (R1, R2, R3, R4 and R5) telling them apart by the coloured bands around their bodies. Bend the legs into a U-shape then fit them flat onto the picture side of the circuit board. Bend the legs outwards into a V-shape to hold them in place. They can be fitted either way around. 
- 3 Fit the capacitor (C1) to the board either way around. Bend the legs outwards to hold it in place. 
- 4 Fit the variable resistor (VR1) to the board and bend the legs a little to hold it in place. 
- 5 Fit the lights (L1 and L2) to the board putting the shorter leg into the hole with the line. The shorter leg also has a flattened edge on the rim. Bend the legs away from each other. 
- 6 Open the legs of the transistors (TR1, TR2 and TR3) a little and fit them to the board matching the half-circle shape of the transistor to the half-circle shape on the board. Push the transistors half way down and bend their legs. 
- 7 Solder the legs of all the components to the metal side of the board then clip the legs close to each solder joint. 
- 8 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. 
- 9 Solder the two flexible wires to the holes marked PROBES. (The metal strands may need twisting together.) The other ends of the wires are left free.
- 10 Firmly push the spindle into the small hole in the top of VR1.
- 11 Connect a battery (**9V PP3**) to the battery snap. The green light should be on and the red should come on when the two probe wires are touched together. (If it doesn't come on try turning the spindle.)

HOW TO USE THE LIE DETECTOR

The *Lie Detector* needs tuning before it can be used, and it needs tuning for every person that uses it as everyone has slightly different skin.

Touch the two probe wires against the palm of your (dry) hand such that the metal ends are a couple of centimetres apart (the metal ends must not touch each other). Adjust the tuning control (VR1) until the red light (FALSE) just goes out. The *Lie Detector* is now tuned for your skin. If you lick your palm and touch the wires against it again the red light should come on brightly.

You should now understand how to use the *Lie Detector* to detect a real lie. Touch the two probe wires against the palm of the subject's hand and adjust the tuning control as before until the red light just goes out. When the subject tells a lie, and begins to sweat, the red light will get brighter.

It must be emphasised that the *Lie Detector* won't detect every lie as it is really only a sweat detector. It only detects lies that have consequences to being told, lies that cause the subject to sweat (with fear). Pretend or 'joke' lies won't have any effect.