

"Get to 9" assembly instructions

Install the components in the following order

1. Resistors - 5 (use the lead bending tool - 10mm)
2. Ceramic Capacitors - 3
3. Switches - 2
4. IC Sockets -2
5. Resistor Networks - 2
6. Transistor
7. Electrolytic Capacitor
8. 7 Segment display
9. LED
10. Potentiometer

Get your soldering and component placement checked before proceeding

8. Get a leader to help you install the two IC's , and test your board to make sure it works before soldering in the Battery socket.
9. Battery socket - this is installed on the rear of the board, - take off the double sided tape 1st.
10. Write your name and Scout Group on the back in the space provided.
11. Ask a leader to put the amber coloured Kapton tape on the back for you

Resistor Display Capacitors Switch Transistor LED Potentiometer IC socket 7 Segment Resistor Network



Transistor flat side must be facing the top of the board

Resistor network (can go either way)

Red-Red-Red - Gold

Brown-Black-Green-Gold

Brown-Black-Orange-Gold

IC Sockets, the notch goes to the left

Note: the "-" lead must go in the "-"ve" hole. (oval shaped one on the right), It must also be laid down on the board. The capacitor may be Black or blue in colour.

Brown-Black-Yellow-Gold

Brown-Black-Orange-Gold

7 Segment Display, the decimal point must go to the lower right

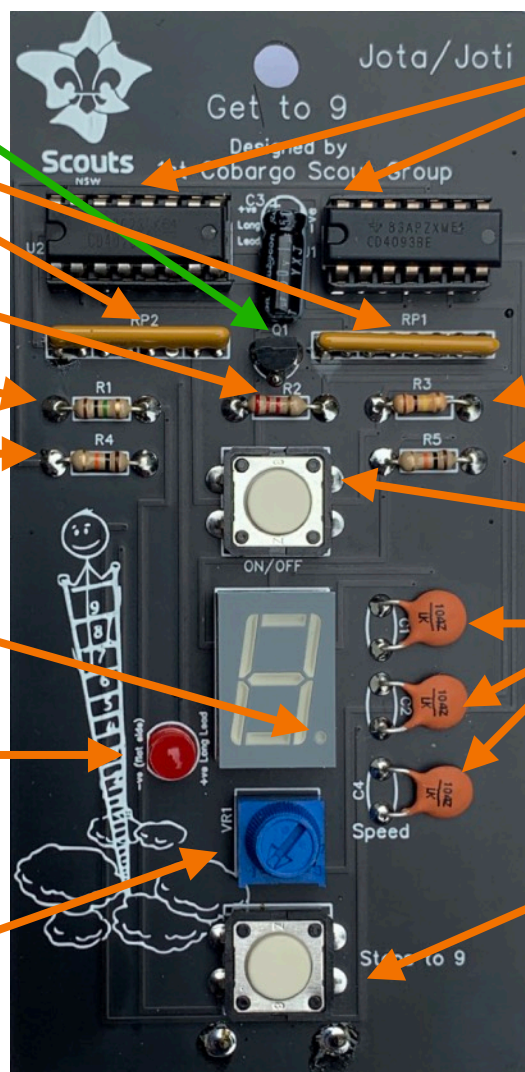
LED (Short lead and flat side goes to the left)

Long lead on the right

This Capacitors can go in either way, and it must be laid down on the board.

Switch - the pins on the switch must be on the left and the right

Potentiometer



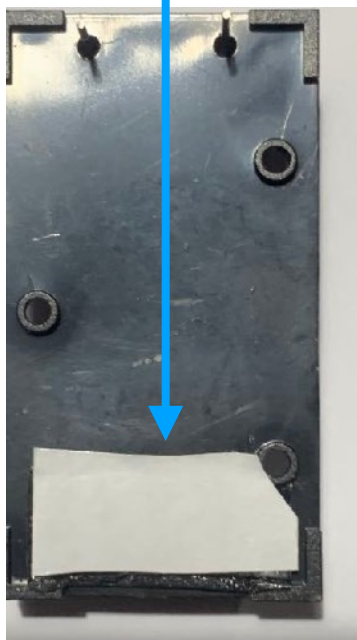
Do not take this sheet, please leave it on the table

“Get to 9” assembly instructions

NOTE : Do not solder in your Battery holder until your board has been tested, as they are difficult to remove if something underneath needs to be fixed.

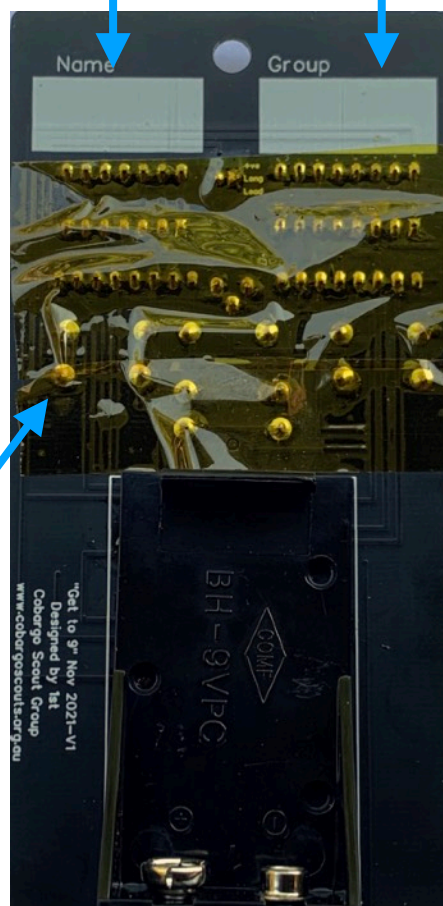
Battery holder

Take the cover tape of the double sided tape before putting the battery socket into the board.



Name and Group

Write your name and Group on the back in the space provided



Kapton tape

The tape will help protect your fingers from any sharp solder joints and also protect the circuit from static electricity, that will stop it working correctly.