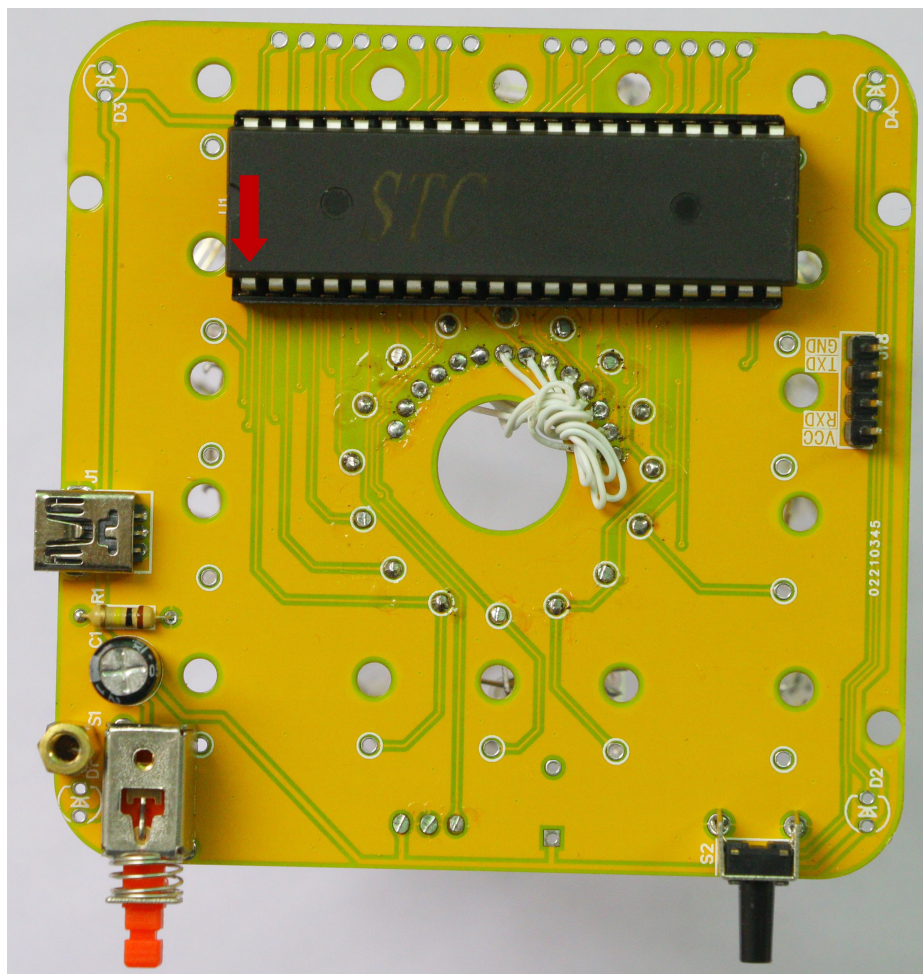


Motherboard debugging

1, Soldering inspection

- (1) Check if there is short circuit.
- (2) Note that the direction of the chip, pin 1 and notch direction, soldering reverse will directly burn the chip, see the arrow below instructions!
- (3) power supply inspection, use a multimeter test VCC, GND has no short circuit, need at 5V or so.



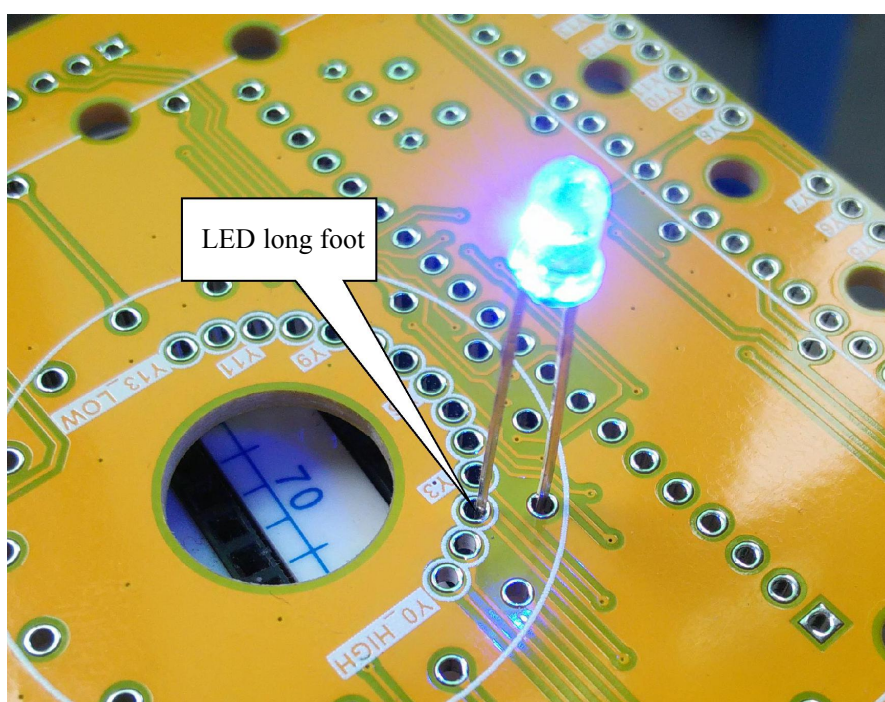
2, single-chip work check

- (1) Note that the microcontroller direction, see the arrow above
- (2) single-chip normal work, the bottom of the four LED (D1-D4) will flash, if 4 LED does not appear flash, please continue to check the above steps, whether the microcontroller is inserted, or no power supply, or four LED are soldered against.
- (3) 4 LED appears in the individual does not flash, indicating that the not flash LED is bad, or reverse please check.

3, drive circuit check

(1) simple test

Take a LED, long foot connected to Y0 to Y13 any hole, short legs connect next to a circle of any hole, then power, LED has a luminous effect, that means single-chip, drive circuit probably normal.



4, LED good or bad inspection

- (1) test alone: you can directly use the multimeter test LED feet, observe whether the LED light to determine whether the good or bad
- (2) lamp ring test, in the bottom of the floor has been the beginning of the lighthouse can be directly energized test, press the remote control CH key can

directly open the debug mode, one click is the layer debugging, double-click the debug ch-, ch + can move Debug point, in the process of debugging to find the problem of LED