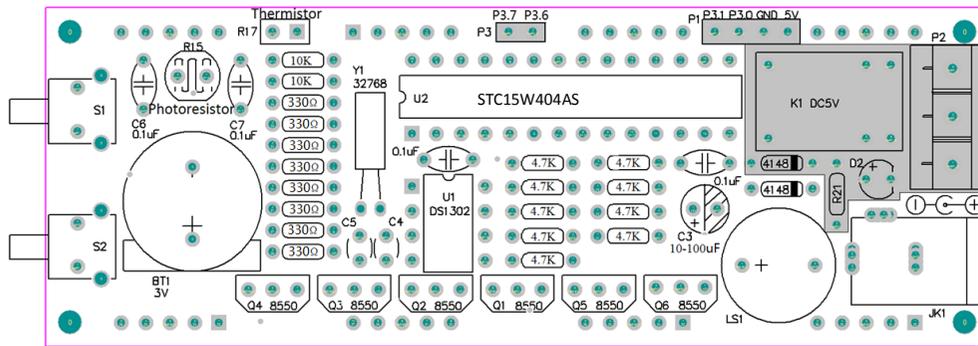


Precautions: Install all components first and confirm there is no error before you install the digital tube!

1. Please install the short components first and then install the long components. After all components are installed, please confirm there is no mistake in the installation. Check whether the soldering is fine and whether there is short circuit or solders skips;



STC15W404AS alternative STC15F204EA

2. The dash area is the part of DIY extension, and no components should be installed there. The IC defaults to have no functions of the extended part.

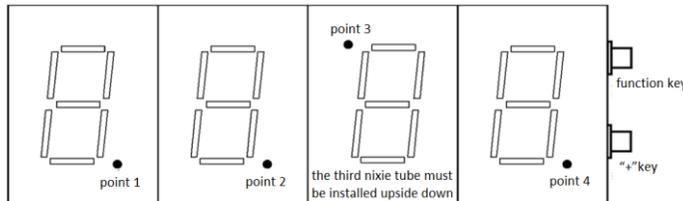
Components without positive or negative electrode: electrical resistor, Photoresistor, thermistor, ceramic capacitor (22p), monolithic ceramic capacitor (0.1uF) and crystal oscillator.

Heteropolar components: electrolytic capacitor (C3-10uF or 100uF). The part with long pin is positive; 1N4148, the part with black circle is negative, which faces toward to the end with white line on the circuit board. Light emitting diode, the end with long pin is positive; the semi-circle of audion faces toward to the trapezoid on the circuit board.

The shape of thermistor is similar to 1N4148, so don't mix them up. The one without characters and black circle is thermistor.

Integrated circuit: Install IC socket first, and then insert the IC to the socket. The chipped side should face toward to the sign with notch on the circuit board.

3. Install digital tube: the third digital tube must be installed upside down.



4. Insert IC at last, and install lithium battery and get power on with 5V power output.

5. Reset: press two keys at the same time for five seconds, and then it displays 7:59. Five seconds later, it displays 8:00, reset is done after buzzer responds for a while.

6. Setup time, alarm clock and hourly chime

a. set up "hour": press the function key(the "hour" digital tube and the "second point" are blinking), press "+"key to revise "hour";

b. set up "minute": press the function key(the "minute" digital tube and "second point" are blinking), press "+"key to revise "minute" (automatically starts from 0 second);

c. Set up the "hour" of alarm clock: press the function key (the "hour" digital tube is blinking, but the "second point" is not, press "+"key to revise "hour" of the alarm clock;

d. Set up the "minute" of alarm clock: press the function key (the "minute" digital tube is blinking, but the "second point" is not, press "+"key to revise "minute" of the alarm clock;

e. check whether the alarm clock is turn on or not: press the function key again (all digital display remain unchanged), press "+"key, if the "point 4" lights, it means the alarm clock is turned on, if the "point 4" vanishes, it means the alarm clock is turned off.

f. set up the time for "hourly chime": press the function key (the "hour" digital tube is blinking), press the "+"key to revise the starting time of alarm clock (for example, if you adjusted it to 9, then it will start hourly chime from 9AM); and press the function key again (the "minute" digital tube is blinking), press the "+"key to revise the ending time of alarm clock (if you adjusted it to 23, then it will start hourly chime from 9AM to 23PM, so it won't start hourly chime in the evening and won't disturb your sleeping time)

g. check whether the function of hourly chime is turned on or not: press the function key again (all digital display remain unchanged), press "+"key, if "point 3" lights, it means the hourly chime is turned on, if "point 3" diminishes, it means the hourly chime is turned off.

h. press function key to exit, then setup is done!

7. Temperature correction, date and week setup

Press the "+"key, it shows the temperature. Press function key to correct temperature and press "+"key to confirm and correct the temperature. And adjust date at the same time. Press function key ("month" blinks), press "+"key to adjust month; press function key again ("day" blinks), press "+"key to adjust day, and then press function key to confirm it. Press "+"key again (it shows week"), press function key (week blinks), and press "+"key again to adjust week, and press function key to confirm it, and then press "+"key to exit.

8. Automatically display function: 45-second time display, 5-second temperature display, 5-second date display and 5-second week display. When the light is dark in the night, the digital tube will automatically become dark; the digital tube turns light when the light is strong.

9. Install shell: tear off the protective film of the shell, and fix the shell with screws.

10. Circuit schematics

