

062 LCD Oscilloscope

Assembly Notes

1. Only install parts listed in the part list attached with the kit.
2. Install all parts at the back first.
3. Please pay special attention when installing following parts.
 - 1) The polarity of D1 and D7 (shown in Fig. 1 below)

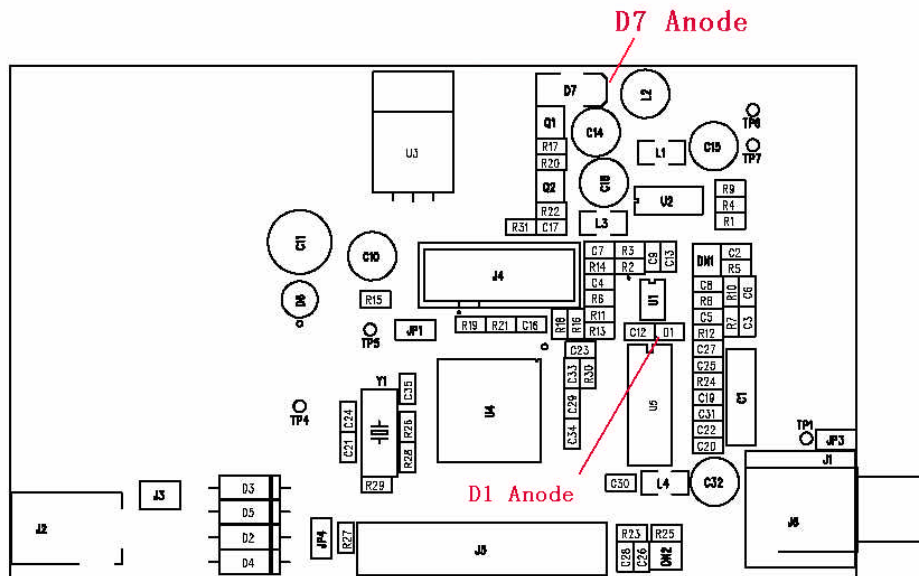


Fig. 1

- 2) Reverse C14, i.e. put its negative pin into the square pad. This is because of a design error.
- 3) Connect pin 16 of J5 to the end of R28 that is closer to R26 with a piece of wire. (Fig. 2)
[Note: This wire is for period measurement only. For firmware of version 113-06201-060 or later this wire is not required since the period measurement function had been removed. Same function can be achieved by setting timebase to a slow value.]
4. After all parts at back has been installed check to ensure no errors. Insert power supply if every thing is fine and measure voltage at TP5 to see if it is +5V.
5. If voltage at TP5 is ok then short JP1 and check the voltage again.
6. If no abnormal found, then go ahead to install the rest parts at the front.

You may need to cut some soldered leads on the front side flat to avoid conflict with the LCD panel, especially those of J4.

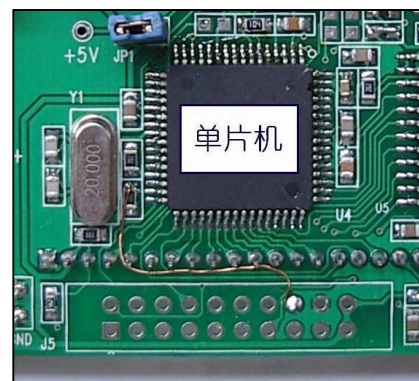


Fig. 2

7. When install the LCD panel solder pins to LCD module first (Fig. 3 & 4). The long row of pins should be placed at the side with signal labels. Since there are same holds on both side of the module it is easy to misplace pins to the other side. **AVOID THIS!!!**

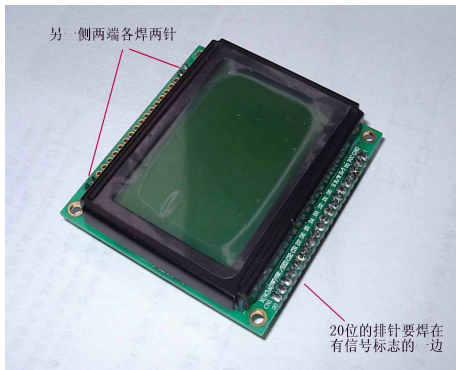


Fig. 3

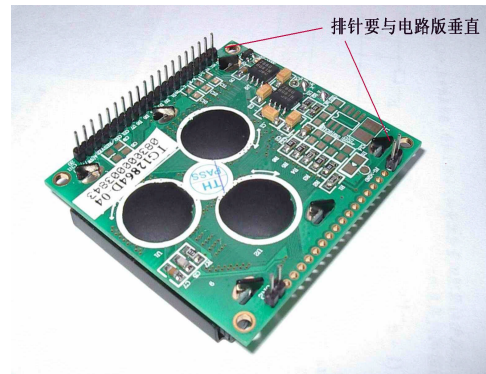


Fig. 4

8. After all parts have been installed power the scope up. If everything is OK you should see the scope displays firmware version information briefly and enters normal working state.
9. You need to make a simple probe yourself. This can easily be made with a segment of regular video cable. Cut a cable. Keep one end with RCA plug. Attach two clips to the other end. A simple probe is done.
10. It is recommended that only +9V power supply be used. Higher power supply voltage will make U3 (LM7805) hotter. In that case attaching a small heatsink to the IC is recommended.

