LYNX-I LCD Replacement MOD REV3.0 Quick Guide

ATTENTION ! Installing the LCD replacement is on your own risk! Your LYNX-I could be damaged, if you are not able to do this modification!

Liability impossible!

Required materials:
LYNX-kit, VGA connector with screws, 4 plastic screws, 11 wires round about 12 cm (5 inches), 8 small wires of 2 cm (1 inch)
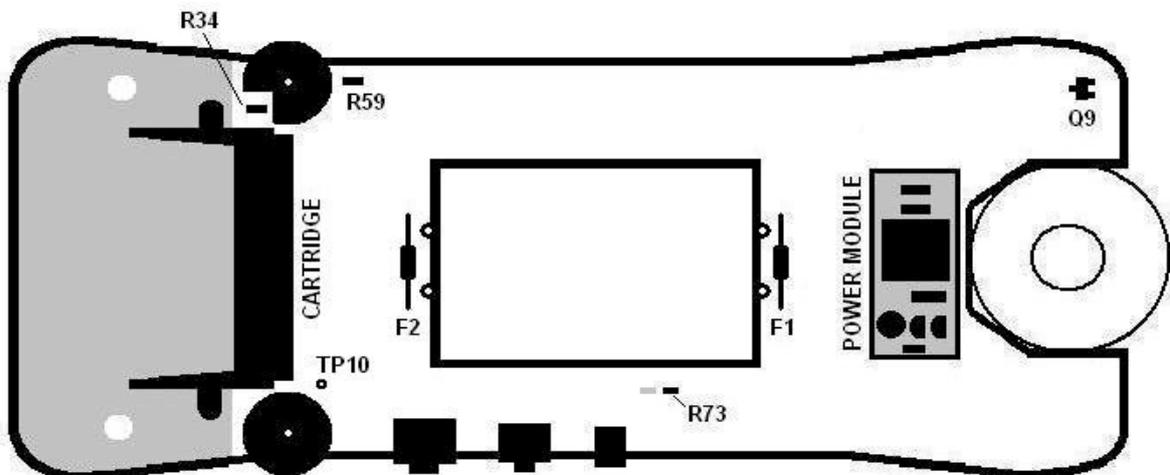
1. Step: Remove not needed Parts and 5 Volt check

ATTENTION ! Make sure that all power is **off**. Disconnect **ALL** cables.
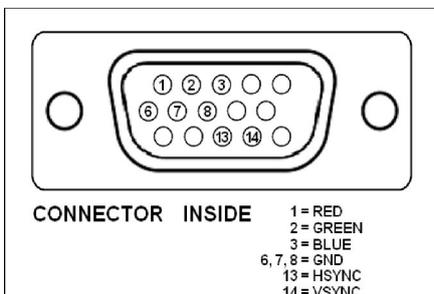**NOTE:** The copper plane of the LYNX-I PCB is **NOT** GND, but 5 Volt !!!
1. Remove **POWER MODULE**
2. Remove **Q9** transistor and **R73** resistor !!!
3. REMOVE **R34** and **R59** resistors.
4. Remove **LCD;** pull off the FPC **carefully** from the PCB like tape
5. Remove **F1** and **F2** fuses and **CFL lamp**
   (see picture below)
!!! Now check the 5 Volt with a voltmeter on **VCC point** (see 3rd step). If the voltage exceeds 5.45 Volt, repair your LYNX ! Otherwise the LYNX mod will be **damaged** !!! **(For testing you need to insert a cartridge!)**
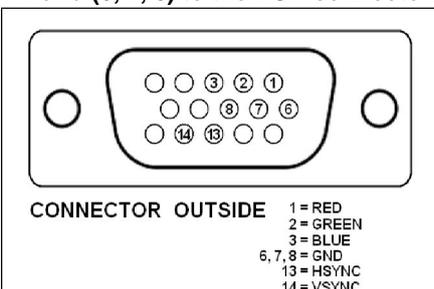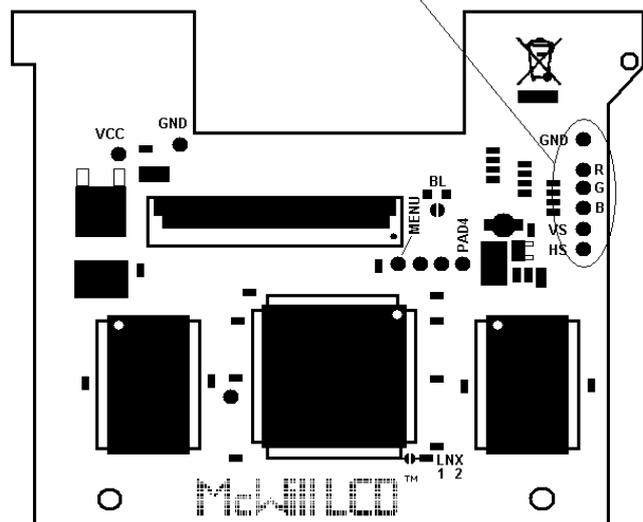
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2. Step: VGA connector (if needed)

CONNECTOR INSIDE
1 = RED
2 = GREEN
3 = BLUE
6, 7, 8 = GND
13 = HSYNC
14 = VSYNC

Connect the pins 6, 7 and 8 together.
Solder 6 wires to the pins 1, 2, 3, 13, 14 and (6, 7, 8) to the VGA connector.

CONNECTOR OUTSIDE
1 = RED
2 = GREEN
3 = BLUE
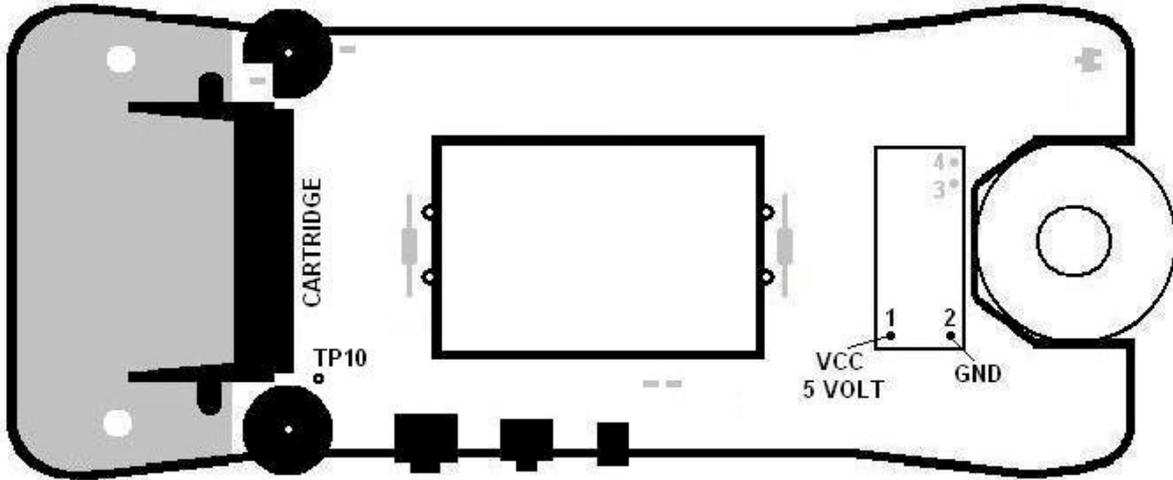6, 7, 8 = GND
13 = HSYNC
14 = VSYNC

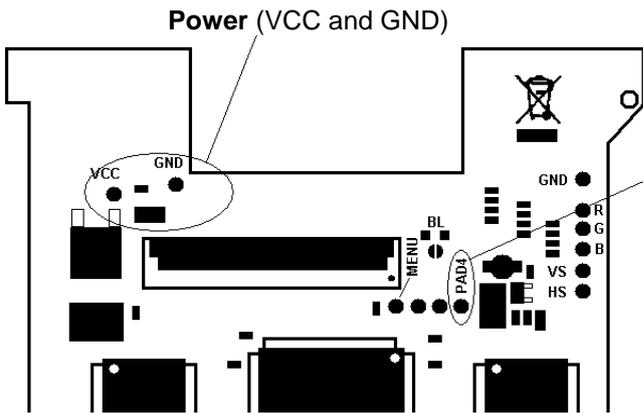**After that you solder the other side of the wires to the LYNX mod.**

!!! Use hot glue for the internal screws of VGA connector. Otherwise the screws may cause short circuit !!!

3. Step: Power and backlight button

Now solder one wire to **VCC** (+5 Volt) and one wire to **GND** (Ground)**.**
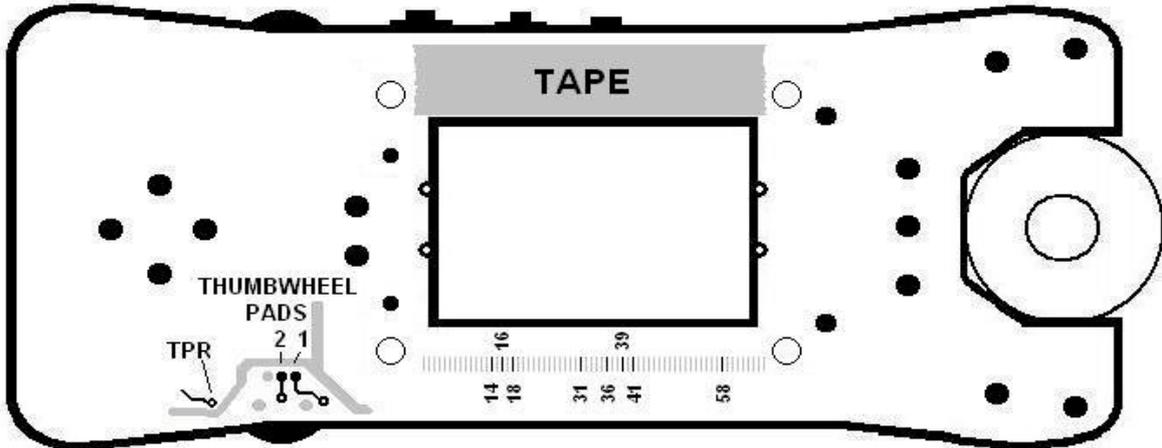
Power (VCC and GND)

For controlling the backlight by thumbwheel you have to solder 2 wires from the thumbwheel **pad 1** and **pad 2** to the **square pads** of **BL.** Otherwise solder a solder blob onto **BL.**
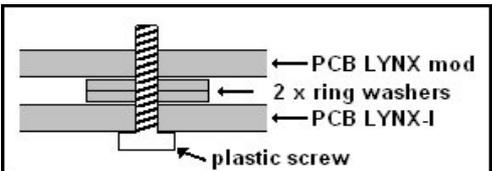
Solder **PAD 4** on the right to **TP10**.

If you **DON'T** want to install the VGA connector, you can put a solder blob onto the **MENU pad 1**. Then you only have two selectable modes (only internal LCD) by pressing **"PAUSE"** for longer time. Otherwise: **1.** Internal LCD; **2.** Same as 1 with retro-style **3.** VGA; **4.** VGA with scanlines
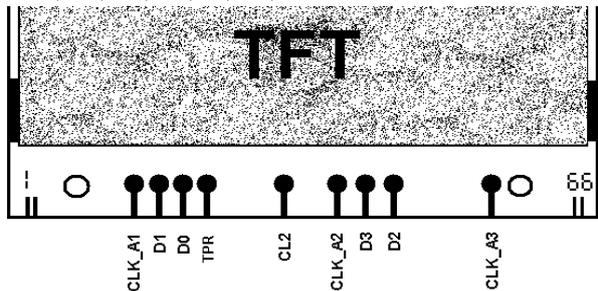
4. Step: Soldering data lines

Solder 8 small wires (2 cm) to the **LYNX PCB** at pin **14, 16, 18, 31,36, 39, 41** and **58**.

←PCB LYNX mod
←2 x ring washers
←PCB LYNX-I
←plastic screw

Now use the white plastic of the old LCD to make 8 ring washers. Take the 4 screws and fix the LYNX mod to the LYNX PCB. Adjust the LYNX mod exactly!

TFT

CLK_A1 D1 D0 TPR CL2 CLK_A2 D3 D2 CLK_A3

Then solder these 8 wires from the LYNX to the LYNX mod. The last wire is **TPR**.
!!! At last check all connections again !!!
If you made everything correct, you'll love it!
3.5" LCD / VGA selection: Press "PAUSE" long time and you can switch to different modes.