LYNX-II LCD Replacement MOD REV3.0
Quick Guide

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

Liability impossible!

Required materials:
LYNX-kit, VGA connector with screws, 18 wires round about 20 cm (8 inches) length (IDE cable)

1. Step: Remove not needed Parts and 5 Volt check

CAUTION

electrical hazard

ATTENTION ! Make sure that all power is **off**. Disconnect **ALL** cables.

1. Remove **R45, R46, R47, R48** and **R49** (optional **C26**) **!!!**
2. Remove **L17** coil
3. Remove **Q13** and **Q14** transistors
4. Remove **C55** and **C56** capicitors
5. Remove **T1** power module (optional)
   (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!)**
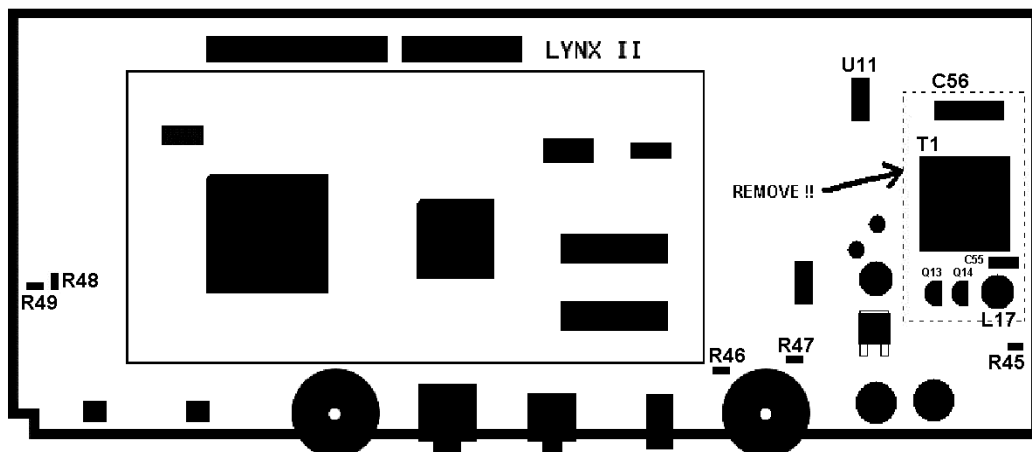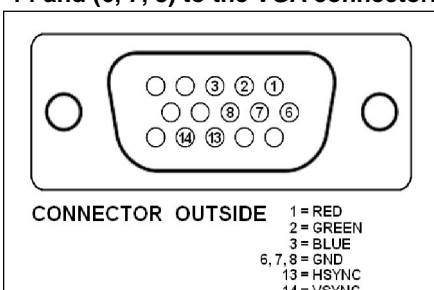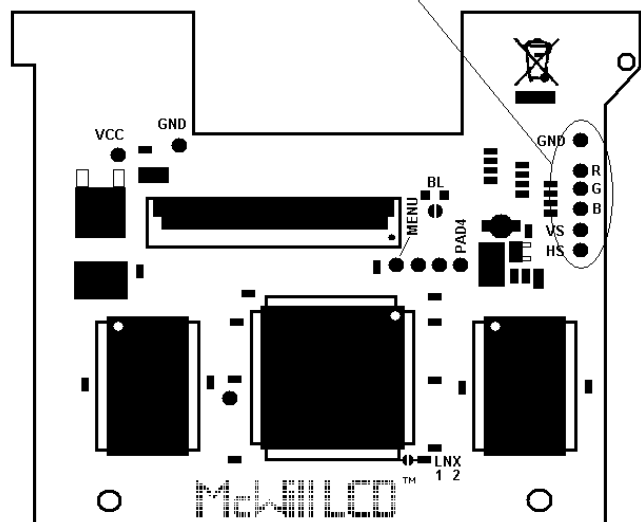
2. Step: VGA connector (if needed)

CONNECTOR INSIDE

1 = RED
2 = GREEN
3 = BLUE
6, 7, 8 = GND
13 = HSYNC
14 = VSYNC
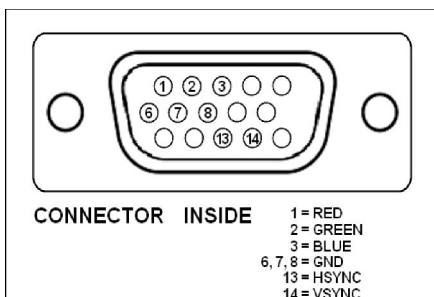
Connect the pins 6, 7 and 8 together.
Solder 6 wires to the pins 1, 2, 3, 13, 14 and (6, 7, 8) to the VGA connector.

CONNECTOR OUTSIDE

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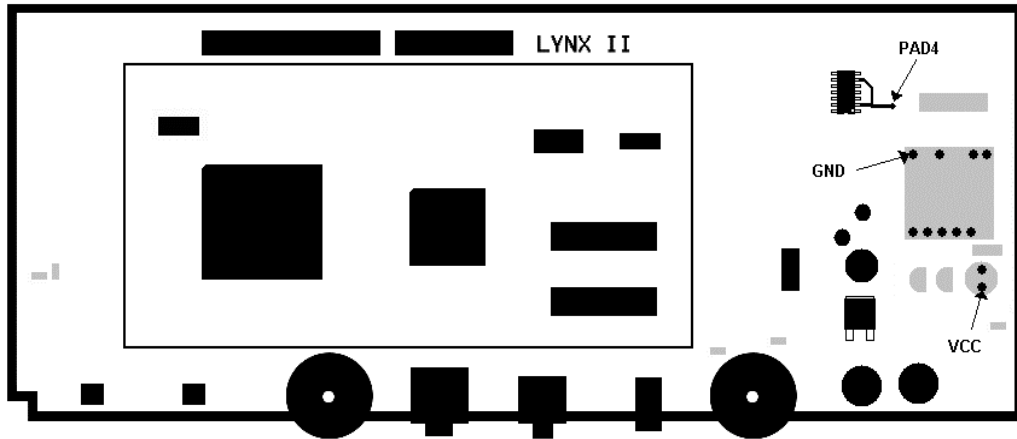6, 7, 8 = GND
13 = HSYNC
14 = VSYNC

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 !!!
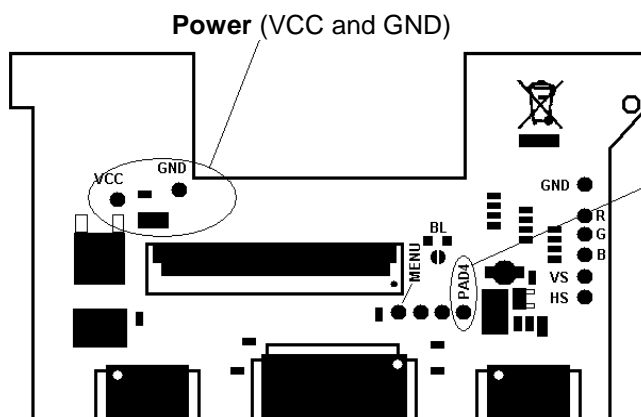
3. Step: Power and backlight button

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

The wire of **PAD4** has to be soldered to **U11** (74HC74A) at **pin 2.**

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.**

PAD 4 on the right.

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 the backlight button. Otherwise:
1. Internal LCD; **2.** Same as 1 with retro-style
3. VGA; **4.** VGA with scanlines

4. Step: Soldering data lines
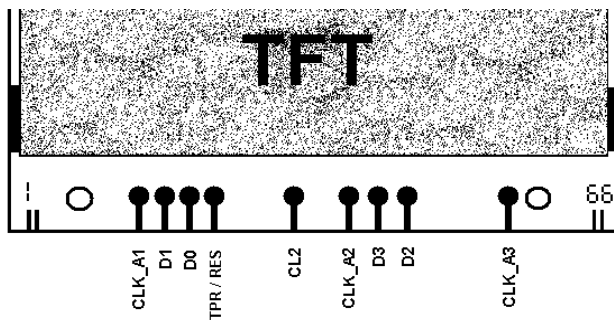
LYNX-II mod. After that solder the other side of the wires to the **LYNX-II**.
You can use **RES** or **TPR**, not both together !

For LYNX-II with chipset 1 (**C104129-001**) you have to use **TPR** (testpoint 27) only!
For using **TPR** jumper **LNX_1_2** is **closed**, for using **RES** jumper **LNX_1_2** is **open** !

Last step is to solder the last 9 wires. Above you can see the **LYNX-II mod** and on the picture below you can see the **LYNX-II**. First solder all 9 wires to the

!!! At last check all connections again !!!

If you made everything correct, you'll love it!

THUMBWHEEL PADS 1 2 3

CARTRIDGE SLOT

TPR

TP27

D2
D3

RES
D0
D1
CLK_A3
CLK_A2
CLK_A1
CL2

LYNX II