LYNX-I LCD Replacement MOD REV2.1
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:
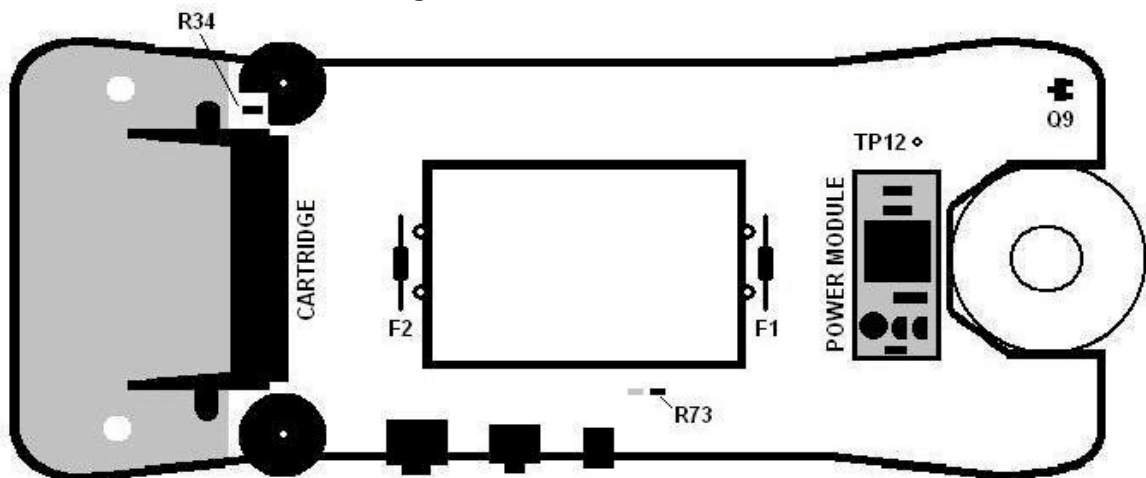**LYNX-kit, VGA connector with screws, 4 plastic screws, 11 wires round about 12 cm (5 inches), 8 small wires (2 cm)**

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

CAUTION

electrical hazard

ATTENTION ! Make sure that all power is **off**. Disconnect **ALL** cables.
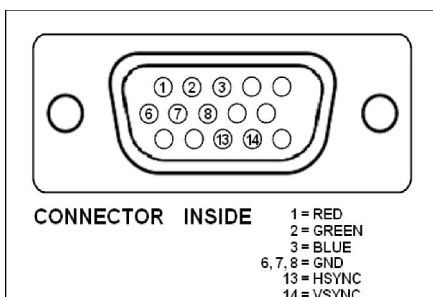NOTE: the copper plane of the LYNX-I PCB is **NOT** GND, but 5 Volt !!!
1. Remove **POWER MODULE**
2. Remove **Q9** transistor and **R73** resistor !!!
3. Replace **R34** resistor with 0 Ohm or bridge
4. Remove **LCD;** pull off the FPC **carefully** from the PCB like tape
5. Remove **F1** and **F2** 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** !!!
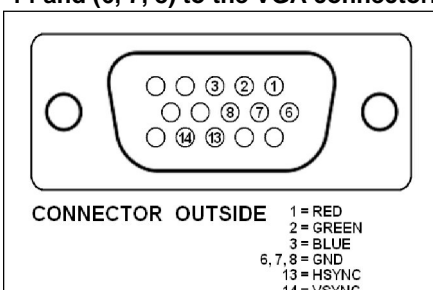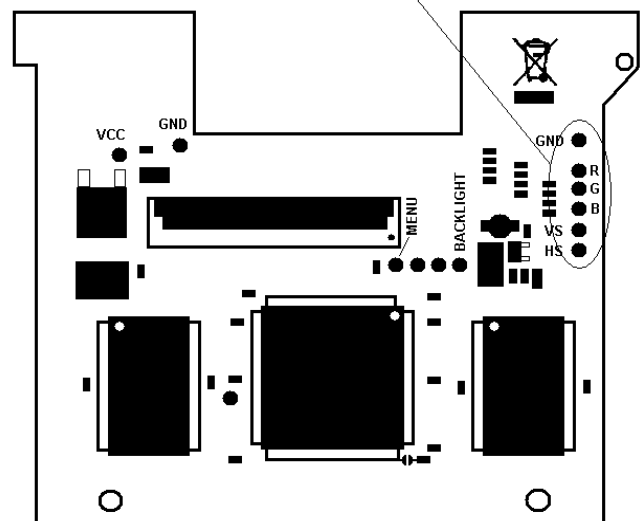
2. Step: VGA connector (if needed)

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
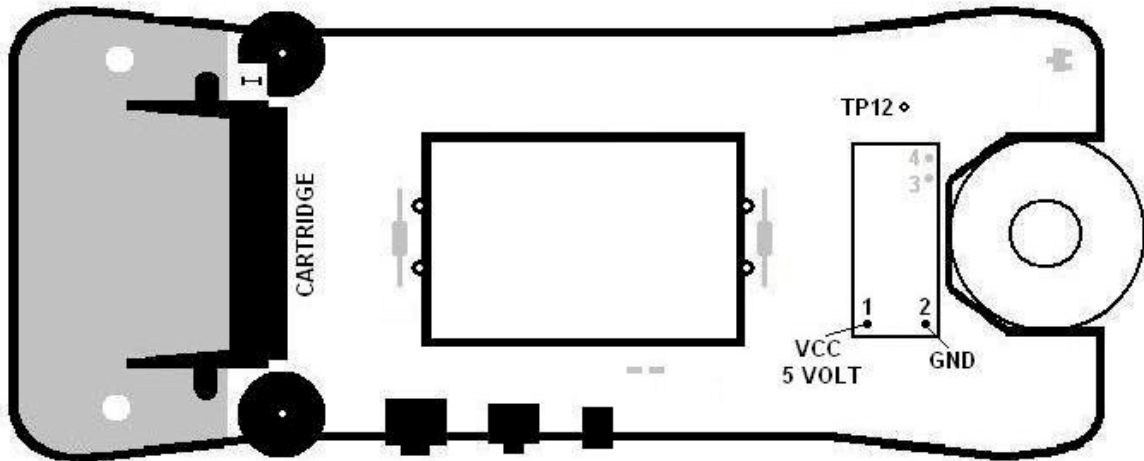3 = BLUE
6, 7, 8 = GND
13 = HSYNC
14 = VSYNC

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)**.**
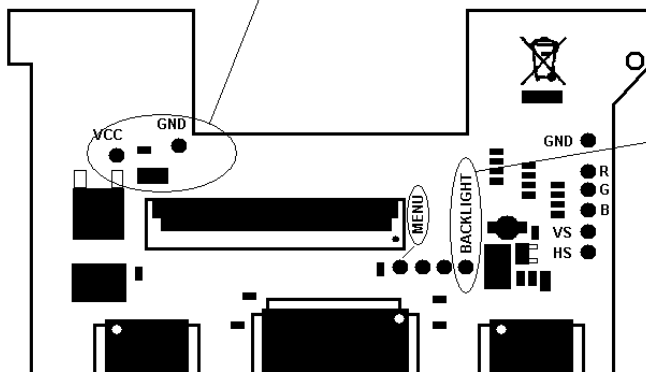
CARTRIDGE

TP12 ◇

4 •
3 •

1   2
VCC   GND
5 VOLT

Solder a second wire from **VCC** (+5 Volt) to **TP12** on the **LYNX board**.

Power (VCC and GND)

VCC   GND

MENU

BACKLIGHT

GND ●
● R
● G
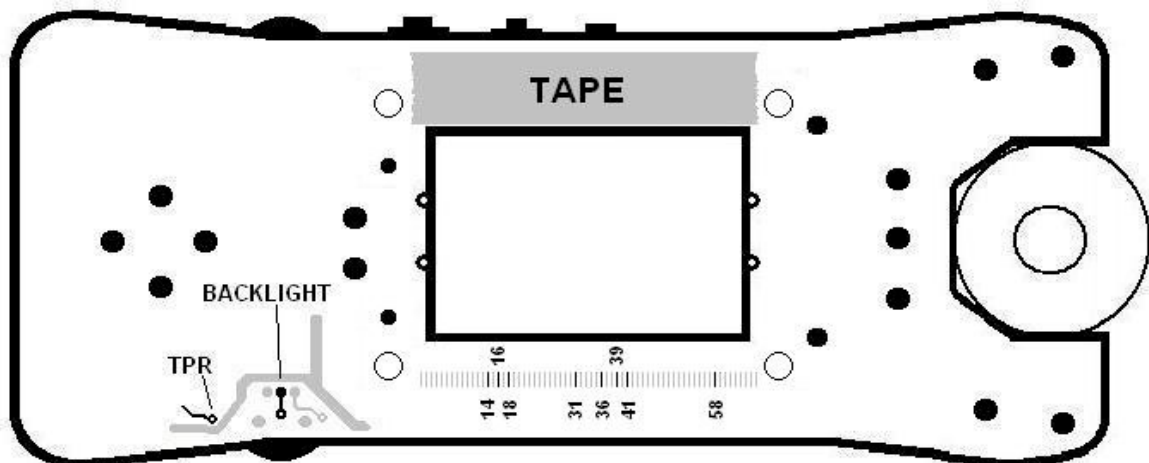● B
VS ●
HS ●

!!! ATTENTION !!!
Don't damage the flexcable (FPC) of the LCD !
You may disconnect the FPC, but don't forget
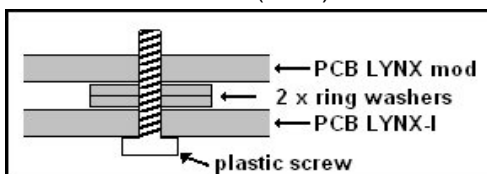connecting it <u>correct</u> after soldering **GND.**

BACKLIGHT - **pin 4** on the right

If you **DON'T** want to install the VGA connector
you can solder 1 wire from **MENU pin 1** on the
left to **GND.** Then you only have two selectable
modes (only internal LCD) by turning the back-
light thumbwheel from left to right to left to right...
Otherwise: **1.** Internal LCD; **2.** Same as 1 with
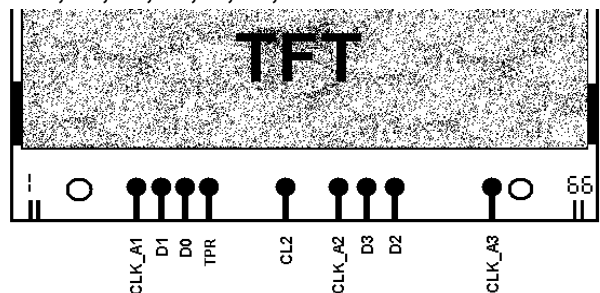retro-style **3.** VGA; **4.** VGA with scanlines

4. Step: Soldering data lines

TAPE

BACKLIGHT

TPR

16   39
14   31
18   36   58
          41

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 2 wires are TPR and backlight.
!!! At last check all connections again !!!
If you made everything correct, you'll love it!

!!! 3.5" LCD / VGA selection: Turn backlight thumbwheel from left to right to left to right ..... !!!