



# Samsung SyncMaster 2443 Backlight Inverter Replacement

Background illumination lights up only for a few seconds. To be displayed image is visible dimly.

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## INTRODUCTION

The backlight of the display does light up only for a few seconds, one reason is a defective transformer in the inverter stage of the power supply.

In this case, a few windings of the transformer have an short circuit, causing the resistance of the two secondary coils to be different.

The fault of transformer can be detected by measuring the temperature of the transformer left and right side using infrared thermometer or thermal imager. The temperature will differ greatly.

Power supply model number is BN44-00238



### TOOLS:

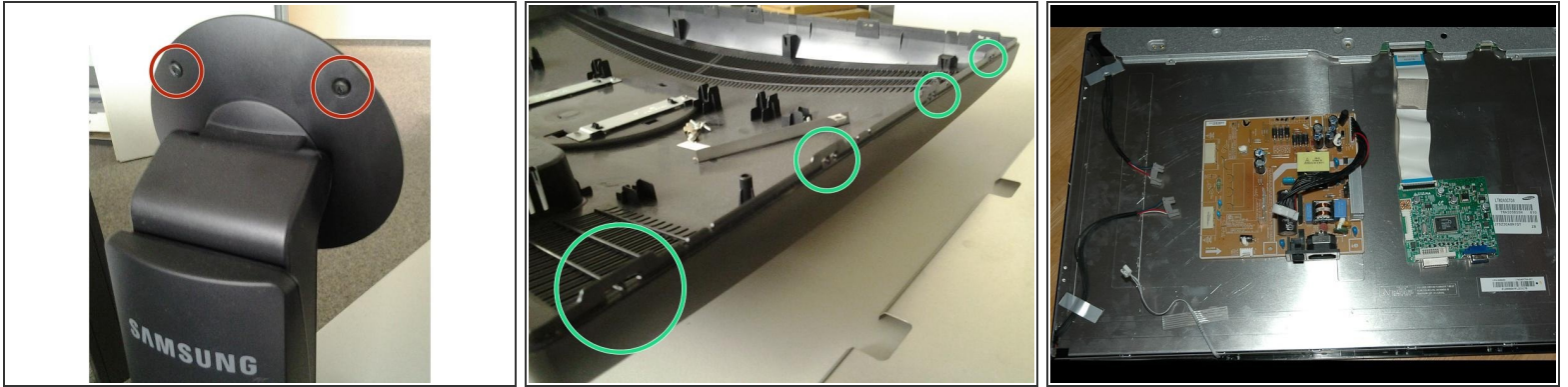
- [Soldering Iron](#) (1)
- [Desoldering Braid](#) (1)
- [Solder](#) (1)




### PARTS:

- [Transformer](#) (1)  
TM09176

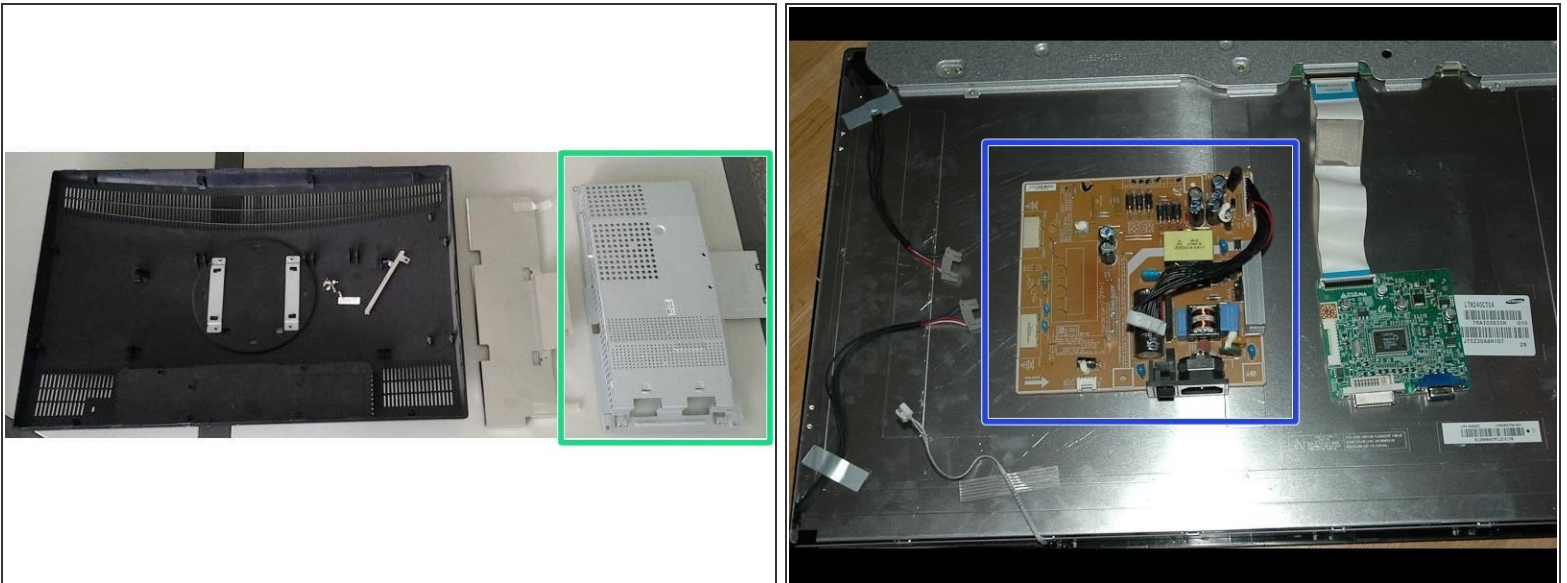
## Step 1 — Open Display



 Remove power cord.

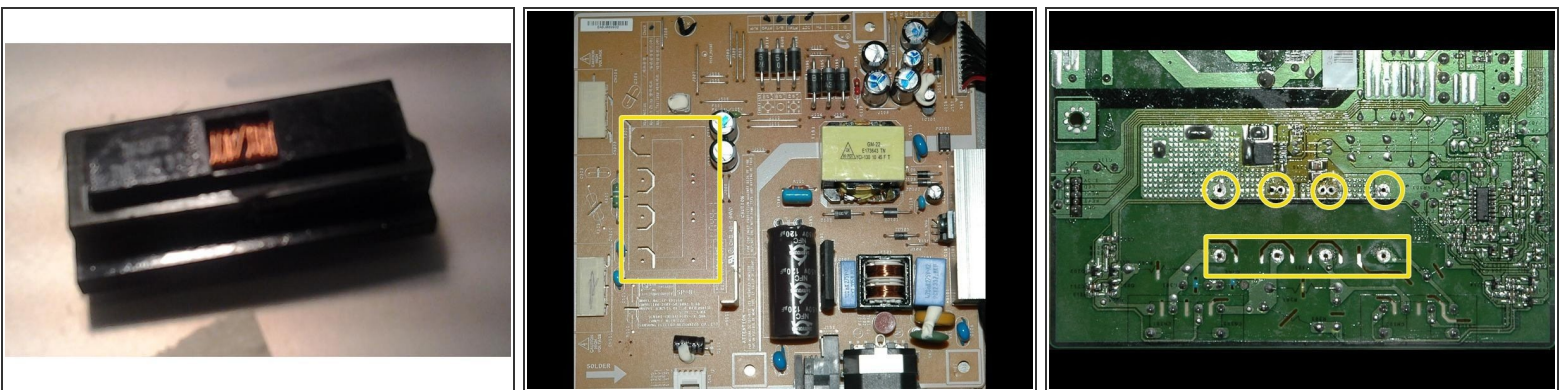
- Remove the display stand by removing the two screws on the round plate on the backside of the monitor
- Open up the backside of the display (display placed face down on cloth to avoid scratches) by carefully releasing the snapped in latches using a screwdriver or opener tool.

## Step 2 — Remove metal cage containing PCBs



- The metal cage housing the PCBs as just stuck to the backside of the LCD.
- Carefully remove adhesive strips, release the cables to LCD and front panel buttons.
- Remove SMPS PCB (switching mode power supply) by removing screws around.

## Step 3



**⚠ Caution:** Touching the capacitor wires may cause serious injury. Use a [capacitor discharge probe](#) to safely rid the capacitors of dangerous charges.

- From power board desolder transformer. It has 6 pins on one and 4 pins on the other side.
- Replace with new transformer. (Model TM-09176)

To reassemble your device, follow these instructions in reverse order.