



# Repairing LG 17LX1R LCD Television Power board

This is a 17" television that doubles as a PC monitor. According to the previous owner, it did not come on again after a thunderstorm. It is out of production and deemed an obsolete model.

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## INTRODUCTION

This is a television/PC monitor that did not work after a storm. I expected to replace a few capacitors, but it only needed a single diode at the cost of twenty-nine cents and about an hour of labor. A new power board for this TV would have cost somewhere around \$80.

### TOOLS:

- Phillips #1 Screwdriver (1)
- Soldering Iron (1)

### PARTS:

- Diode IN4007 (1)

## Step 1 — Repairing LG 17LX1R LCD Television Power board



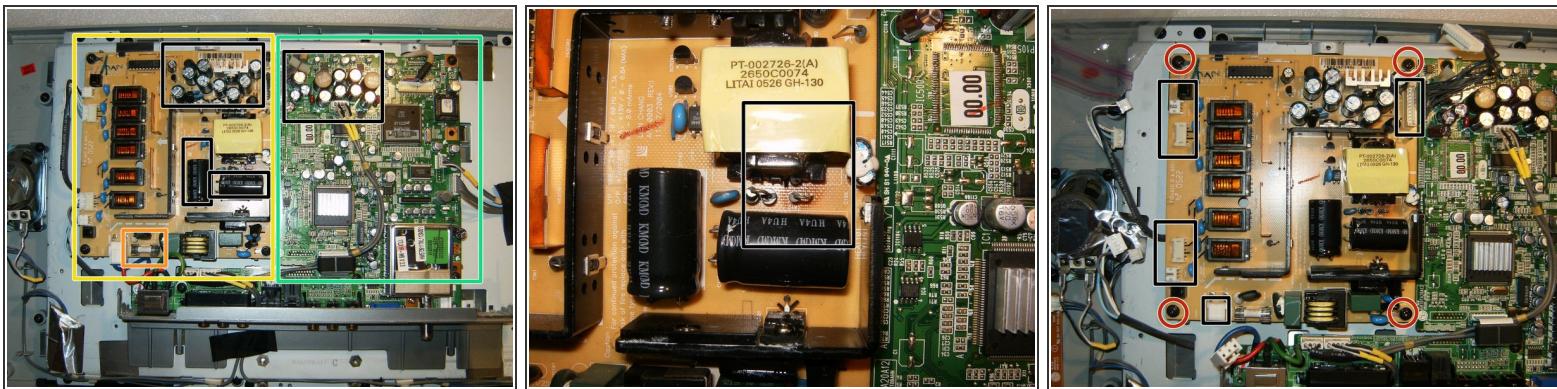
- This is the LG 17LX1R that will no longer turn on.
- Remove the cover from the stand by.
  - Press down on the two tabs. The cover should come off easily.
  - Remove the four screws that hold the stand assembly to the chassis.

## Step 2



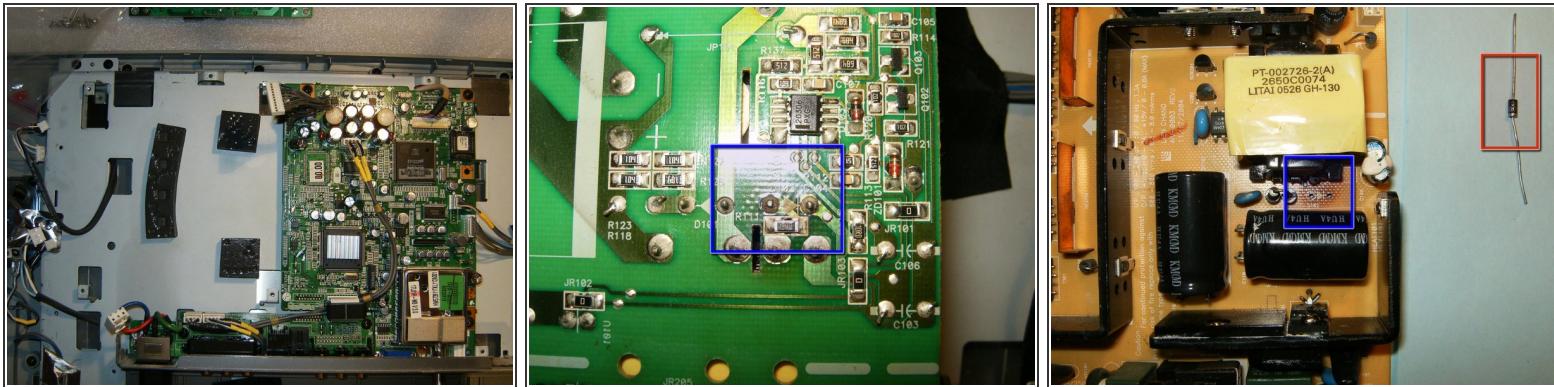
- Remove the four Phillips head screws that attach the stand to the chassis.
- Remove the eight Phillips screws that hold the back to the chassis. Once the screws are removed, the back will simply snap off.
- Remove the metal shield. It is fastened with six Phillips screws.

## Step 3



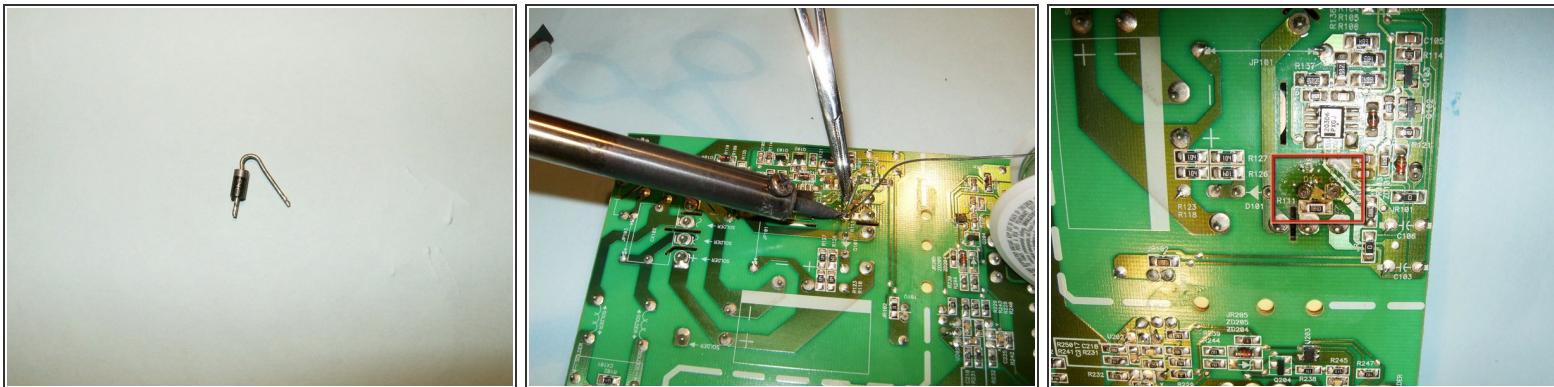
- After the shield is removed, the power board and the main board are visible.
  - Power Board
  - Main Board
  - Fuse
- Check all capacitors for blown tops and/or leakage.
- Thoroughly inspect the boards. Brown discoloration around Diode D102 is evidence of a short circuit, possible blown component.
- Disconnect all connectors from the power board
  - Remove the four screws that mount the power board to the chassis.

## Step 4



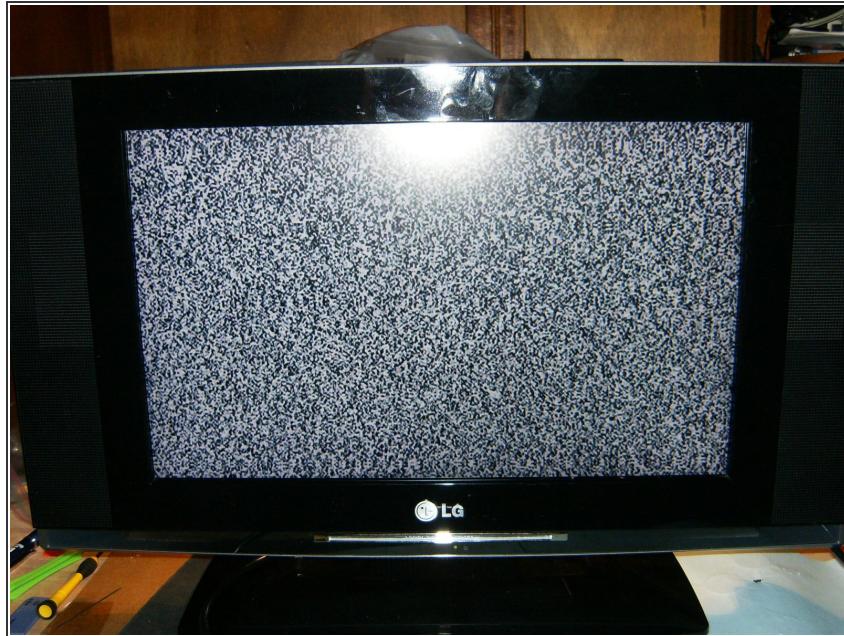
- These are the chassis with the power board removed.
- Discoloration of the back side of the power board is a sign of a faulty diode.
- Unsolder the diode from the power board.
  - Replacement diode

## Step 5



- Here is the removed diode. Description on the diode reads LT526 IN4007.
- Solder the new diode onto the power board. Use a pair of tweezers or hemostat to hold the diode in place while soldering.
- Once the diode is replaced, clean the board with isopropyl alcohol to get rid of any debris or old flux.

## Step 6



- Device powers on and has audio and video after the repair.

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